



County Palatine of Chester

REPORT

for the Year

1960

BY THE


County Medical Officer of Health

Presented to the
County Health Committee

15th December, 1961

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REPORT
OF THE
County Medical Officer of Health
For the Year ended December 31st, 1960



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Introduction

*To the Chairman and Members
of the County Health Committee.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the administrative county of Cheshire for the year 1960.

At the mid-year the County's population was 899,580 by the Registrar General's estimate, an increase of 17,380 over the previous year. The birth rate was 17.1 per thousand population, more than in the previous year (16.0) which itself was the highest since 1948, one of the "bulge" years.

The death rate, 11.6 per thousand population was lower than in 1959. 2,371 of these deaths were in the age group 45 to 64 years, and 1,481 of these were of males and 890 of females, a ratio of 1.66 men to each woman.

The infantile mortality rate, the number of deaths of infants under the age of one year per thousand live births, was 20.1, lower than in the previous year, but not so low as in 1957, which was the lowest figure yet recorded in the County. The perinatal death rate, *i.e.* the proportion of still births plus deaths under one week old per thousand total live and still births was 31.6, a reduction compared with 1959.

3.4% of total births were illegitimate. The still birth rate again declined from 21.6 to 19.3 per 1,000 total live and still births, an indication of the improving standard of ante-natal care in the county. This figure is the lowest ever recorded in Cheshire.

Six deaths (0.38 per thousand total live and still births) took place from pregnancy, childbirth and abortion, rather more than last year (4) and in 1958 when there were only two deaths from these causes. As a matter of comparison, the ratio was 1.63 in 1949 per thousand total births.

Again the commonest site of fatal cancer was the lungs and bronchi, and 360 persons died from this cause. This death rate has remained steady since 1956. As previously noted in these reports deaths from lung cancer were commoner within those areas within ten miles of Manchester than elsewhere in the County. The number of deaths from bronchitis (498) was approximately the same as last year.

Deaths from coronary thrombosis again increased from 1716 to 2019 and 597 of these took place within the age group of 45 to 64 years; the ratio of deaths amongst men to those amongst women in this age group was four to one.

As in 1959 no deaths were reported from diphtheria or poliomyelitis, and only one from whooping cough. For the first time, no deaths took place from measles, although 3681 cases were notified. 1960 however was not an epidemic year.

Only nine cases of poliomyelitis (six of them paralytic) were reported. As a matter of interest, the highest number of notifications of this disease was in 1956 when 131 persons were notified as suffering from poliomyelitis. One case of diphtheria was notified.

Figures are given on page 49 of the report of immunisations and vaccinations performed during the course of 1960, and the great assistance and interest given to this subject by the family doctors will be noted. More immunisations are now performed by means of triple antigen (diphtheria, whooping cough and tetanus) than by all other methods added together. An arrangement has been made with hospitals that whenever a child is given anti-tetanic serum his doctor is informed and asked to administer active immunisation by tetanus toxoid. Cards are issued to all children actively immunised against tetanus so that anti-tetanic serum need not be given to those children if they receive hospital treatment for accidents.

Both notifications and deaths from tuberculosis in all its forms continue to decline. The B.C.G. vaccination scheme, carried out in schools with the co-operation and help of the teaching staffs, remains exceedingly popular; 77% of consent forms circularised to parents were returned signed. The percentage of children tested by purified protein derivative (P.P.D.) who were found negative and therefore required vaccination against tuberculosis was 75.9%. The great majority of children are now vaccinated by freeze-dried vaccine. Three Divisional Medical Officers and one Assistant County Medical Officer collaborated with the Duchess of York Hospital in a research project into the use of freeze-dried B.C.G. vaccine.

An inevitable result of the welcome decline in the incidence of pulmonary tuberculosis has been that no trainees are now available for admission to Wrenbury Hall for rehabilitation and eventual colonisation. A large hostel has therefore been adapted for mentally subnormal adults, some of whom will be placed in employment locally, whilst others will be found work in Wrenbury Hall industries. The first admissions of this kind will take place in January, 1962.

Radio control of the Ambulance Service has proceeded during the year and, now that equipment has been placed at the Cheadle station, will be complete throughout the County early in 1962. New stations have been occupied at Cheadle, Altrincham, Heswall and Sandbach, the latter having been made possible through the co-operation of Sandbach U.D.C. A shield, kindly given by the Chairman of the Ambulance Sub-Committee to be awarded each year to the most efficient ambulance station, was presented to Crewe. This shield and the Chairman of the County Council's cup presented to the winning station at the County

Annual Ambulance Competition have aroused the keenest interest and stations vie with each other in their efforts to distinguish themselves. The spirit amongst the staff, already whole-hearted and keen, has become even better with these evidences of obvious interest shown in their work by the members and officers of the County Council. Now that central control has been developed to cover almost the whole County a Deputy County Ambulance Officer has been appointed with special responsibility for Civil Defence.

Delay still occurs in filling the vacancies which arise in the rural parts of Cheshire for domiciliary nurses. They are eventually filled but repeated advertisements are often necessary and in the meantime the neighbouring nurses are hard pressed to meet the needs of the vacant areas. A house at Northwich previously used as accommodation for nurses has been furnished as a training centre where courses of instruction are organised from time to time.

There were increased attendances at doctors' ante-natal clinics, midwives' clinics and preparation classes. By co-operation with the Chester City Hospital an additional consultant ante-natal clinic was established at Frodsham.

New midwives' clinics were established at Altrincham (Broomwood Estate), Frodsham and Macclesfield (Heyes Hall), and an additional preparation class (with relaxation exercises) at Handforth. Child welfare centres were opened at Altrincham (Broomwood), Bramhall, Carrington and Pensby. It is pleasing to record that the total number of attendances at child welfare centres exceeded that in the previous year by 11.5%, a tribute to the doctors and health visitors working in them.

One of the special functions of a child welfare centre is that of health education of mothers of infants attending, and this work is continued after the age of two years by attendance, by appointment, at Young Children's Clinics. These, some of which have been in existence for many years, have been greatly expanded; they are also considered to be of importance in prevention of mental ill-health.

New purpose-built clinic centres are now in use at Sandbach and Ellesmere Port, each of which contains a child guidance clinic in addition to the usual clinical facilities. The Ellesmere Port clinic centre is one of three new buildings erected on the same site contiguous to the ambulance station and comprising clinic, day nursery and adult training centre. The old clinic will house the Divisional Health Office and it is hoped it will be developed as a centre for handicapped persons.

The clinic centre at Hazel Grove, an old building directly on the main A.6 road, having shown signs of becoming unsafe has been abandoned apart from the dental clinic and divisional health office. Accommodation has been found for the clinics in a near building, but rebuilding of a new clinic centre is to start shortly. The site, lying immediately behind the old clinic centre, will be for clinic and divisional

office and a group practice surgery for the Hazel Grove general practitioners.

Special attention has been paid to the needs of deaf children. Additional audiology clinics have been established at Ellesmere Port and Northwich and many more infants and young children have been screened for hearing loss than in the previous year. The work of the two peripatetic teachers of the deaf has proved invaluable. One of the noteworthy features of the audiology clinics has been the close association established between Sir Alexander Ewing and his assistants on the one hand, and the consultant ear, nose and throat surgeons on the other.

Co-operation between the County Health Staff and Hospital Consultants has been maintained, and indeed, further improved. The regular meetings with consultants from Clatterbridge and Chester General Hospitals, and at Deva Hospital and the ward rounds at Macclesfield have continued; mental welfare officers are welcomed at the psychiatric consultants' out-patient clinics (which now cover the whole county) and they are encouraged to visit the psychiatric hospitals to discuss problems of after-care. The peripheral consultant paediatric clinics established for many years at Crewe and Northwich are of great value to general practitioners and the County Council's medical staff whilst that same consultant paediatrician acts as the head of the county cerebral palsy team which is performing excellent work in facilitating early treatment of spastic infants.

An agreement has been made with Cheadle Royal, a private hospital for treatment of mentally disordered patients, whereby men and women able to perform 38 hours of work weekly and themselves earning a minimum of £2 10s. 0d. per week in the sheltered industrial workshop established there are, subject in each case to the approval of the Ministry of Labour, able to receive a wage of £8 5s. 0d. in the case of married men and a less amount in the case of single men, women and juveniles through a grant payable by the County Council to Cheadle Royal. Arrangements are now being made with the Medical Director of Cranage Hall and Mary Dendy Hospitals (for the mentally subnormal) to establish out-patient clinics attended by both hospital consultant and county medical staff. There can be no doubt that the Mental Health Act of 1959 has opened the way to a much closer integration of measures designed to procure improved services for the prevention, treatment and after-care of mentally disordered persons.

The first purpose-built Adult Training Centre recently commenced work at Ellesmere Port and it is expected that others will shortly be erected as sites have been purchased and the approval of the Ministry of Health has been obtained to the plans and the expenditure of capital. The move from the unsatisfactory premises at New Ferry to the newly erected Junior Training Centre at Eastham took place some weeks ago; other specially erected Junior Training Centres are to follow in the near future.

The greatly increased scope and activity in the mental health field has demanded improvements in the office accommodation for Mental Welfare Officers, and whenever possible this is proceeding. Clerical assistance is provided according to requirements. The greatest difficulty is to find adequate training for what is becoming a more and more demanding job. One Mental Welfare Officer who has academic qualifications is now attending a year's University course, and some others will do the same in due time, but the great need is for a one year full-time period of "in post" training for Mental Welfare Officers of mature age but without the necessary academic standards to attend a University.

A helpful co-operation is always maintained with local branches of such voluntary societies as the National Association of Mental Health, the National Spastics Society and the National Association for Handicapped children.

The Domestic Help Service has been reorganised by the appointment of sufficient Domestic Help Organisers, ten in number, to cover the whole administrative County, although the service is managed through the Divisional Health Committees. The "special laundry" service is found invaluable for certain incontinent elderly persons confined to bed, and Divisional Committees are empowered to make additional payments to domestic helps engaged in cleaning dirty and neglected houses.

As mentioned in the last Annual Report, arrangements were made towards the end of 1960 for the work hitherto performed at the County Public Health laboratory to be transferred to the new Ministry of Health laboratory at Chester. Special attention is paid to the examination of milk samples for brucella infection and all positive samples are reported both to the County Veterinary Officer of the Ministry of Agriculture and to the Agricultural Executive Committee. General practitioners in the County have agreed to notify voluntarily patients suffering from brucellosis so that appropriate action can be taken.

Section XI of the Report gives an account of work done on behalf of handicapped persons. In order to stimulate local activity and interest the services under this heading have been devolved upon the Divisional Health Committees with the exceptions of the Welfare of the Blind and of the Deaf, both of which activities are under the control of voluntary societies which together cover the whole County, and which are in receipt of financial grants. Results have been most encouraging, and in particular, interest is being shewn in the organisation of clubs for handicapped persons. A successful example is at Cheadle, where very considerable help has been granted by members of the W.V.S. Amongst other examples of activity on the part of this excellent body must be noted the "Meals on Wheels" service which has extended its scope and usefulness during the past year.

It is with the greatest regret that I have to report the death of Dr. Donald Longbottom, who had been the Medical Officer of Health and Divisional Medical Officer for the Altrincham Division almost since the date of operation of the National Health Service Act. He was deservedly highly esteemed both for his work and his personality, and will be greatly missed in his division, perhaps not least for his prowess and leadership in sport.

My grateful thanks, as always, are due to the Chairman and Members of the County Health Committee and also of the Divisional Health Committees for their understanding and constant help and support.

I also wish to thank the Clerk of the County Council, the County Treasurer, the County Architect, and indeed all heads of County Departments for their co-operation and assistance which has so readily been available on all occasions, and it is with the deepest of gratitude that I acknowledge the very great loyalty, friendliness, and assistance which I have invariably received from all the staff of the County Health Department, no less in the several Health Divisions than in the County Hall,

I beg to remain,

Your obedient servant,

ARNOLD BROWN.

2nd December, 1961.

Staff of the Public Health Department

County Medical Officer of Health and Principal School Medical Officer	Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H., Barrister-at-Law
Senior Medical Officer for Maternal and Child Welfare	B. M. Butters, M.A., M.B., Ch. B., D.P.H.
Senior School Medical Officer	H. Craig, L.R.C.P. & S., L.R.F.P.S.
Senior Medical Officer for Mental Health	R. A. Blyth, M.B., Ch.B., M.R.C.S., L.R.C.P.
Senior Assistant Medical Officer	N. M. E. Robertshaw, B.Sc., M.B., Ch.B., D.R.C.O.G., D.C.H.
Assistant County Medical Officers	Jessie Anderson, M.B., Ch.B., D.P.H.
	R. Cargill, M.B., Ch.B.
	Margaret Caton, M.R.C.S., L.R.C.P.
	S. Caruana, M.D., B.Sc., D.T.M. & H., D.P.H.
	Jenny Craig, M.B., Ch.B., D.P.H.
	Margaret Crosland, M.B., Ch.B.
	Hilda Dean, M.R.C.S., L.R.C.P.
	Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H.
	Barbara Jones, M.B., Ch.B.
	Janet Jones, M.B., Ch.B.
	Marjorie Jukes, M.B., Ch.B., D.P.H.
	Cita Kershaw, M.B., Ch.B.
	Hilda Levis, M.R.C.S., L.R.C.P., M.B., B.S., D.P.H.
	H. Summers, M.Sc., M.B., Ch.B., D.P.H.
	Jessie Tough, M.B., Ch.B., D.P.H.
Divisional Medical Officers	
<i>Altrincham</i>	
<i>Bebington</i>	F. S. Melville, M.B., Ch.B., D.P.H.
<i>Cheadle and Wilmslow</i>	H. M. Thomas, M.B., Ch.B., D.C.H., D.P.H.
<i>Crewe</i>	D. G. Crawshaw, M.B., M.R.C.S., D.C.H., D.P.H.
<i>Deeside</i>	J. Hatton, M.D., D.P.H.
<i>Hyde</i>	W. Turner, M.B., Ch.B., D.P.H., LL.B.
<i>Macclesfield</i>	W. R. Plews, L.R.C.P. & S., D.R.C.O.G., D.P.H.
<i>Mid-Cheshire</i>	W. S. Slater, M.B., M.R.C.S., D.P.H.
<i>Nantwich</i>	R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.
<i>N. E. Cheshire</i>	T. W. Brindle, M.B., Ch.B., D.P.H.
<i>Runcorn</i>	J. L. Patterson, M.B., Ch.B., D.P.H.
<i>Sale and Lymm</i>	E. H. Gordon, M.D., B.Ch., B.A.O., D.P.H.
<i>S. E. Cheshire</i>	L. Rich, M.B., Ch.B., M.R.C.O.G., D.P.H.
<i>S. W. Cheshire</i>	W. J. Birchall, M.B., M.R.C.S., L.R.C.P., D.P.H.
<i>Stalybridge and Dukinfield</i>	T. Holme, M.B., Ch.B., D.P.H.
County Analyst	J. G. Sherratt, F.R.I.C.
Dental Surgeons	A. F. Hely, C.B., L.D.S. (Principal)
	A. E. Allen, L.D.S., R.F.P.S.
	Edith Andrew, L.D.S.
	J. B. Andrew, L.D.S., R.C.S., B.D.S.
	J. M. Arany, M.D., L.D.S., R.F.P.S.
	M. K. Baron, L.D.S.
	Dorothy Coates L.D.S.

Dental Surgeons

Elizabeth Clark, B.D.S.
G. H. Craine, B.D.S.
Margaret Davis, B.D.S. (part-time)
D. M. Dodd, L.D.S.
Jean Hall, L.D.S., R.C.S., (part-time)
G. J. Hartley, L.D.S.
R. H. Hurst, L.D.S.
H. Jackson, L.D.S.
Lisbeth Kippen, L.D.S., D.P.D.
Irene Kurer, B.D.S., (part-time)
A. N. Leicester, B.D.S.
H. P. Meed, L.D.S.
Ruth Owen, L.D.S.
J. A. Reece, L.D.S. (part-time)
H. W. S. Sheasby, L.D.S.
K. V. Shute, L.D.S.
E. J. Taylor, L.D.S.
E. Twelves, L.D.S.
Dorothy Walker, L.D.S.
R. S. Wood, L.D.S.

Ophthalmic Surgeons (Part-time)

B. Boas, M.D.
P. J. Devlin, M.B., Ch.B., D.O.M.S.
J. D. E. Edwards, M.B., Ch.B., D.O.M.S.,
R.C.P.S.I.
A. Holmes-Smith, M.A., M.B., B.Chir.,
D.O.M.S.
C. Jacobs, M.D., M.B., B.S.
E. Riley, M.B., Ch.B., D.O.M.S.
L. R. C. Rose, L.M.S.S.A., D.O.
Dorothy Simmons, M.B., Ch.B.

Orthopaedic Surgeons (Part-time)

T. Jackson, M.R.C.S., L.R.C.P.
E. M. Kupfer, M.B., B.S., F.R.C.S.
J. L. Mangan, F.R.C.S.I.
K. Marks, M.Ch., F.R.C.S.
T. McSweeney, M.B., M.Ch., F.R.C.S.
A. G. O'Malley, M.Ch., F.R.C.S.
G. T. Partridge, M.A., M.B., F.R.C.S.
R. Roaf, M.A., F.R.C.S.
G. A. Wetherell, M.B., M.Ch., F.R.C.S.
J. D. Allan, M.D., F.R.C.P.
O. T. Taylor, M.B., Ch.B.
J. M. Kodicek, M.B., B.S., F.R.C.S.,
L.R.C.P.

Paediatrician (Part-time)

Ear, Nose and Throat Surgeons (Part-time)

Chest Physicians (Part-time)

J. Black, M.D., F.R.F.P.S., M.R.C.P.
D. L. Caldwell, M.A., M.R.C.P.
A. Fleming, M.B., Ch.B., D.P.H.
A. C. C. Hughes, M.A., M.D., M.R.C.P.
P. B. Woolley, M.B., Ch.B., M.R.C.P.
E. R. Smith, M.D., Ch.B., D.P.H.
D. W. C. Tough, M.B., Ch.B., D.P.H.

Chief Administrative Assistant County Ambulance Officer Deputy County Ambulance Officer

B. O'Connor, M.A., Barrister-at-Law
R. G. Jones

County Health Inspector Deputy County Health Inspector Supt. Mental Welfare Officer

G. E. Turner
W. Pembleton
J. M. Farrall
T. Rattray

Superintendent of Home Nursing Non-Medical Supervisor of Midwives

Miss I. N. Vaughan
Miss M. A. Reynolds

Assistant Superintendents of Home Nursing

Miss K. Heron
Miss M. L. Plant

HEALTH VISITORS & SCHOOL NURSES (119)

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 1a. Miss K. Gosney, Broomfield, Meols Drive, Hoylake (Tel. Hoylake 2322)	Hoylake U.D. (Meols & Hoose Wards)	Broomfield, Meols Drive, Hoylake Welfare Centre— <i>Thurs. p.m.</i> Ante-Natal Clinic— <i>Tues. a.m.</i> Preparation Class— <i>Wed. p.m.</i> M.A. Clinic— <i>Fri. a.m.</i> Mantoux Testing Clinic— <i>Last Thurs. a.m.</i>
DISTRICT No. 1b. Miss W. Lacy, 3, Glebe Road, Wallasey	Hoylake U.D. (Central, Park & South Wards)	Broomfield, Meols Drive, Hoylake Welfare Centre— <i>Thurs. p.m.</i> Ante-Natal Clinic— <i>Alt. Tues. p.m.</i> Preparation Class— <i>4th Wed. p.m.</i> Paediatric Clinic— <i>Alt. Tues. p.m.</i> Screening Clinic— <i>Mon. p.m.</i> Mantoux Testing Clinic— <i>Last Thurs. a.m.</i> Parish Hall, West Kirby Welfare Centre— <i>Fri. p.m.</i>
DISTRICT No. 1c. Mrs. D. Christian, 87, Palm Grove, Oxtou, Birkenhead (Tel. Claughton 4702)	Hoylake U.D. (Grange Ward, Caldý & Frankby Ward Pt. ii—Caldý)	Broomfield, Meols Drive, Hoylake Young Children's Clinic— <i>1st Fri. a.m.</i> Ante-Natal Clinic— <i>Tues. a.m.</i> Screening Clinic— <i>Mon. p.m.</i> Paediatric Clinic— <i>Alt. Tues. p.m.</i> Parish Hall, West Kirby Welfare Centre— <i>Fri. p.m.</i> Parish Hall, Newton Welfare Centre— <i>2nd and 4th Wed. p.m.</i>
DISTRICT No. 1d. Miss D. Maybury, 12, Far Meadow Lane, Irby, Heswall, Wirral (Tel. Irby 2564)	Hoylake U.D. (Greasby Ward, Caldý & Frankby Ward Pt. i—Frankby)	Broomfield, Meols Drive, Hoylake Ante-Natal Clinic— <i>Alt. Tues. p.m.</i> Preparation Class— <i>Alt. Wed. p.m.</i> Eye Clinic— <i>1st, 3rd and 5th Fri. p.m.</i> Methodist Church Hall, Greasby Welfare Centre— <i>Tues. p.m.</i> Screening Clinic— <i>2nd and 4th Wed. a.m.</i>
DISTRICT No. 2a. Miss D. V. Stamper, 25, Hillary Road, Eastham	Bebington M.B. (Woodhey and Pt. L. Bebington Wards)	New Ferry Park (Tel. R.F. 1143) Ante and Post Natal Clinic— <i>Mon. a.m.</i> Screening Clinic— <i>Thurs. a.m.</i> Victoria Hall, Higher Bebington (Tel. Mountwood 1527) Welfare Centre— <i>Tues. p.m.</i> Clatterbridge Hospital Geriatric Clinic— <i>Thurs. p.m.</i>
Miss B. Shepherd, 42, Danehurst Road, Wallasey	Bebington M.B. (Hr. Bebington and Part L. Bebington Wards)	Victoria Hall, Hr. Bebington Welfare Centre— <i>Tues. p.m.</i> New Ferry Park Young Children's Clinic— <i>2nd Thurs. p.m.</i> Mayer Hall, Bebington (Tel. R.F. 1440) Young Children's Clinic— <i>3rd Thurs. p.m.</i> St. Mark's Parish Room, New Ferry (Tel. R.F. 1213) M.A. Clinic— <i>Wed. a.m.</i> Eye Clinic— <i>Fri. a.m.</i>
Miss D. Cadogan, 1, Maldwyn Road, Wallasey.	Bebington M.B. (Poulton and Pt. L. Bebington Wards)	New Ferry Park Welfare Centre— <i>Wed. p.m.</i> Women's Institute, Thornton Hough Welfare Centre— <i>1st Fri. p.m.</i>
Miss E. Nicholson, Rock Mount, 37, Mill Road, Hr. Bebington (Tel. Mountwood 1949)	Bebington M.B. (Sunlight Ward)	Mayer Hall, Hr. Bebington Welfare Centre— <i>Fri. p.m.</i> New Ferry Park Paediatric Clinic— <i>2nd and 4th Tues. p.m.</i>

	CIVIL PARISHES	CENTRES & CLINICS
District No. 2a—(cont.)		
Miss E. M. Wright, 705, Borough Road, Birkenhead	Bebington M.B. (Eastham (pt. ii))	St. David's Presbyterian Church Hall, Eastham Welfare Centre— <i>Mon. p.m.</i> Young Children's Clinic— <i>4th Tues. p.m.</i> Screening Clinic— <i>1st and 3rd Tues p.m.</i> Council Offices, Bromborough (Brom. 2102) Screening Clinic— <i>2nd Fri. p.m.</i> New Ferry Park Preparation Class— <i>Thurs. p.m.</i>
Miss R. E. Abraham, 3, Rock Park, Rock Ferry (Tel. Rock Ferry 728)	Bebington M.B. (N. & part S. Brom. Wards)	Council Offices, Bromborough Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>4th Tues. p.m.</i> M.A. Clinic— <i>4th Tues. a.m.</i> Screening Clinic— <i>2nd Fri. p.m.</i> New Ferry Park Ante and Post Natal Clinic— <i>Mon. a.m.</i> Screening Clinic— <i>Thurs. a.m.</i>
Mrs. J. O. Pace, 37, Woodhey Court, Old Chester Road, Bebington;	Bebington M.B. (Park & New Ferry Wards)	New Ferry Park Welfare Centre— <i>Wed. p.m.</i> Ante and Post Natal Clinic— <i>Fri. a.m.</i>
Mrs. M. F. Cordon, 8, Westbrook Road, Saughall Massie, Wirral (Tel. Arrowbrook 6051)	Bebington M.B. (Eastham (pt. i) and Pt. S. Brom- borough Wards)	Council Offices, Bromborough Welfare Centre— <i>Thurs. p.m.</i> Handicapped Persons Club— <i>Wed. p.m.</i> St. David's Presbyterian Church Hall, Eastham Welfare Centre— <i>Mon. p.m.</i> Screening Clinic— <i>1st and 3rd Tues. p.m.</i> New Ferry Park Ante and Post Natal Clinic— <i>Fri. a.m.</i> Eye Clinic— <i>3rd Sat. a.m.</i>
DISTRICT No. 2b.		
Miss E. L. Roberts, 23, Penmon Drive, Heswall, Wirral	Capenhurst Ledsham Neston U.D. (Burton & Ness, Little Neston & Willaston Wards)	Puddington Shotwick Woodbank Mellock Lane, Neston (Tel. Neston 2189) Welfare Centre— <i>Thurs. p.m.</i> Ante-Natal Clinic— <i>Mon. a.m.</i> Preparation Class— <i>2nd and 4th Fri. p.m.</i> Screening Clinic— <i>2nd and 4th Tues. a.m.</i> Eye Clinic— <i>1st and 3rd Thurs. a.m.</i> Red Cross Depot, Willaston Welfare Centre— <i>1st and 3rd Fri. p.m.</i>
Mrs. D. Dromgoole, Oysters, Richmond Crescent, Pearl Lane, Vicars Cross, Chester.	Neston U.D. (Leighton & Parkgate, Neston East & West Wards)	Mellock Lane, Neston Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>3rd Tues a.m.</i> Ante Natal Clinic— <i>Mon. a.m.</i> Preparation Class— <i>1st, 3rd and 5th Fri. p.m.</i> Screening Clinic— <i>2nd and 4th Tues. a.m.</i> M.A. Clinic— <i>1st Tues. a.m.</i> Paediatric Clinic— <i>Thurs. p.m.</i>
DISTRICT No. 2c.		
Mrs. E. G. Sinden, Gayton Grange (Flat 2), Well Lane, Gayton, Wirral (Tel. Heswa 12706)	Irby Pensby Thurstaston	Telegraph Road, Heswall Welfare Centre— <i>Mon. p.m.</i> Ante-Natal Clinic— <i>Thurs. a.m.</i> Preparation Class— <i>Alt. Thurs p.m.</i> M.A. Clinic— <i>1st Tues. p.m.</i> Screening Clinic— <i>1st and 3rd Tues. a.m.</i> Paediatric Clinic— <i>2nd and 4th Tues. p.m.</i> Methodist Hall, Mill Hill Road, Irby Welfare Centre— <i>1st and 3rd Wed. p.m.</i> Church Hall, Pensby Welfare Centre— <i>2nd and 4th Tues. p.m.</i>

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 2d. Miss M. Okill, 79, Irby Road, Heswall, Wirral	Barnston Gayton Heswall-cum-Oldfield	Telegraph Road, Heswall Welfare Centre— <i>Mon. p.m.</i> Young Children's Clinic— <i>3rd Tues. p.m.</i> Ante-Natal Clinic— <i>Thurs. a.m.</i> Preparation Class— <i>Alt. Thurs. p.m.</i> Screening Clinic— <i>1st and 3rd Tues. a.m.</i> Eye Clinic— <i>2nd and 4th Fri. p.m.</i>
DISTRICT No. 3a. Miss M. M. Trist, Flat 2, 39b, Penketh Road, Wallasey. Miss R. E. Ruark, 187, Raeburn Avenue, Eastham	Ellesmere Port M.B. (Westminster and Central A.A. Wards) Ellesmere Port M.B. (Grange Ward)	Stanney Lane, Ellesmere Port (Tel. E. Port 1692) Welfare Centre— <i>Alt. Fri. p.m.</i> Ante-Natal Clinic— <i>Mon. a.m.</i> Stanney Lane, Ellesmere Port Welfare Centre— <i>Alt. Tues. p.m.</i> Ante-Natal Clinic— <i>Mon. a.m. Wed. p.m.</i> Preparation Class and Midwives Clinic— <i>Mon. p.m.</i> Screening Clinic— <i>Alt. Tues. p.m.</i>
Miss G. M. Thorburn, Flat 2, 35, Liverpool Road Chester	Ellesmere Port M.B. (South Pt. Whitby Ward)	Stanney Lane, Ellesmere Port Welfare Centre— <i>Fri. p.m.</i> E.N.T. Clinic— <i>2nd and 4th Mon. a.m.</i> Screening Clinic— <i>Tues. p.m.</i> Ante-Natal Clinic— <i>Alt. Wed. p.m.</i>
Miss M. L. Bate, Waterdale, 86, Chester Road, Ellesmere Port (Tel. E. P. 3009)	Ellesmere Port M.B. (Stanlow C.D. Ward)	Stanney Lane, Ellesmere Port Welfare Centre— <i>Alt. Fri. p.m.</i> Young Children's Clinic— <i>Thurs. p.m.</i> Screening Clinic— <i>Alt. Tues. p.m.</i>
Miss E. R. Coates, 6, The Willows, Wallasey.	Ellesmere Port M.B. (Victoria, Stanlow C.C. and Central AB Wards)	Stanney Lane, Ellesmere Port Welfare Centre— <i>Tues. p.m.</i> Eye Clinic— <i>Fri. a.m.</i> Village Hall, Ince Welfare Centre— <i>4th Thurs. p.m.</i>
Miss J. F. Fawcett, 52, Princes Boulevard, Bebington (Tel. Rock Ferry 4544)	Ellesmere Port M.B. (Sutton Ward)	Chester Road, Little Sutton (Tel. Hooton 3297) Welfare Centre— <i>Mon. p.m.</i> Young Children's Clinic— <i>1st Tues. p.m.</i> Ante-Natal Clinic— <i>Fri. a.m.</i> Preparation Class— <i>Thurs. p.m.</i> Midwives Clinic— <i>Thurs. p.m.</i> Screening Clinic— <i>Tues. p.m. as required.</i>
Miss K. E. Cawthorn, 19, Kirket Lane, Bebington	Ellesmere Port M.B. (Poole Ward)	Chester Road, Little Sutton Welfare Centre— <i>Mon. p.m.</i> Ante-Natal Clinic— <i>Fri. a.m.</i> Screening Clinic— <i>Tues. p.m.</i> Community Centre, Overpool Welfare Centre— <i>1st and 3rd Thurs. p.m.</i>
Miss W. M. Williams, 5, Woodward Road, Rock Ferry. Mrs. H. K. Wright, (Clinic Nurse)	Ellesmere Port M.B. (North part Whitby Ward)	Stanney Lane, Ellesmere Port Welfare Centre— <i>Alt. Tues. p.m.</i> Ante-Natal Clinic— <i>Alt. Wed. p.m.</i> Stanney Lane, Ellesmere Port Welfare Centre— <i>Tues. and Fri. p.m.</i> Ante-Natal Clinic— <i>Mon. a.m. Wed. p.m.</i> M.A. Clinic— <i>Thurs. a.m.</i>
DISTRICT No. 3b, Miss D. Toft, Golf House, The Oaks, Upton, Chester (Tel. Chester 23638)	Aldford Buerton Chester Castle Christleton Churton Heath Claverton Dodleston Eaton Eccleston Golborne Bellow Golborne David	Handley Huntington Kinnerton Lea Newbold Marlston Newton-by-T'ham Poulton Pulford Rowton Saighton Tattenhall Barbour Institute, Tattenhall Welfare Centre— <i>1st and 3rd Mon. p.m.</i> Village Hall, Huntington Welfare Centre— <i>2nd and 4th Wed. p.m.</i> Saighton Camp Wives' Club Clinic— <i>1st Wed. p.m.</i> Women's Institute, Christleton Welfare Centre— <i>1st and 3rd Thurs. p.m.</i> Immunisation Clinic— <i>Last Fri. a.m.</i>

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 4a

Miss B. Jackson,
39, Acres Lane,
Upton,
Chester
(Tel. Chester 27251)

Barrow
Bridge Trafford
Dunham-on-the-
Hill
Elton
Great Boughton
Guilden Sutton
Hapsford
Hoole Village

Littleton
Little Stanney
Mickle Trafford
Picton
Stoke
Thornton-le-
Moors
Wimbolds
Trafford

55 Hoole Road, Chester (Tel. Chester 22299)
M.A. Clinic—1st Mon. p.m.
Screening Clinic—2nd and 4th Fri. p.m.
Eye Clinic—2nd and 5th Thurs. p.m.
Village Hall, Barrow
Welfare Centre—1st and 3rd Wed. p.m.
Women's Institute, Christleton
Welfare Centre—3rd Thurs. p.m.
The Rock, Frodsham
Screening Clinic—1st and 3rd Fri. p.m.

DISTRICT No. 4b.

Miss M. G. E. Crawford,
"Wirswall,"
6, Newton Park View,
Newton,
Chester
Tel. Chester 24420)

Bache
Backford
Caughall
Chorlton-by-
Backford
Croughton

Lea-by-Backford
Mollington
Moston
Saughall
Shotwick Park
Upton
Wervin

Village Hall, Upton
Welfare Centre—1st and 3rd Thurs. p.m.
Vernon Institute, Saughall
Welfare Centre—1st, 3rd & 5th Mon. p.m.

DISTRICT No. 5.

Miss M. Gourlay,
Castle View,
Clotton Lane,
Huxley,
Chester

Ashton
Beeston
Bruen Stapleford
Burton-by-Tarvin
Clotton Hoofield
Cotton Abbots
Cotton Edmunds
Delamere
Duddon
Eaton
Foulk Stapleford
Hatton
Hockenhull
Horton-cum-Peel

Huxley
Iddinshall
Kelsall
Mouldsworth
Pryor's Heys
Rushton
Tarporley
Tarvin
Tilstone Fearnall
Tiverton
Utkinton
Waverton
Willington

Victory Hall, Tarporley
Welfare Centre—2nd and 4th Thurs. p.m.
Screening Clinic—1st Fri. a.m.
Eye Clinic—1st Thurs. p.m.
Parish Room, The Vicarage, Tarvin
Welfare Centre—2nd and 4th Wed. p.m.
Screening Clinic—1st Fri. a.m.
(even months)
Parish Hall, Kelsall
Welfare Centre—1st and 3rd Tues. p.m.

DISTRICT No. 6.

Mrs. W. Jones,
Lyle Villas,
Caergwrle,
Nr. Wrexham

Agden
Aldersey
Barton
Bickerton
Bickley
Bradley
Broxtun
Burwardsley
Caldecott
Carden
Chidlow
Chorlton
Chowley
Church Shocklach
Churton-by-Alld
Churton-by-F'don
Clutton
Coddington
Crewe
Cuddington
Duckington
Edge
Edgerley

Egerton
Farndon
Grafton
Hampton
Hartill
Horton
Kings Marsh
Larkton
Macefen
Malpas
Newton-by-
Malpas
Oldcastle
Overton
Shocklach Oviat
Stockton
Stretton
Threapwood
Tilston-by-Malpas
Tushingham
Wigland
Wychough

Parish Hall, Malpas
Welfare Centre—1st, 3rd & 5th Mon. p.m.
Screening Clinic—3rd Thurs. p.m.
Memorial Hall, Farndon
Welfare Centre—1 and 3rd Tues. p.m.

DISTRICT No. 7a.

Mrs. D. E. Govan,
23, Waylands Drive,
Liverpool, 25.

Runcorn U.D.
(Halton & Grange Wards)

34, Halton Road, Runcorn (Tel. Runcorn 2449)

Welfare Centre—Wed. a.m.
Young Children's Clinic—2nd Thurs. p.m.
Ante-Natal Clinic—Thurs. a.m.
Immunisation Clinic—1st Tues. a.m.

Mrs. E. O'Looney,
2, Ennerdale Drive,
Litherland,
Liverpool, 21.

Runcorn U.D.
(Heath and Victoria Wards)

34 Halton Road, Runcorn
Welfare Centre—Wed. p.m.
Ante & Post Natal Clinic—Thurs. a.m.
Screening Clinic—Tues. p.m.
M.A. Clinic—2nd Fri. a.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 7a—contd.

Miss A. Davies,
3, Cornwall Street,
Runcorn

Runcorn U.D.
(Weston Ward)

34 Halton Road, Runcorn
Welfare Centre—Wed. p.m.
Young Children's Clinic—2nd Thurs. p.m.
Screening Clinic—Tues. p.m.
Russell Hall, Weston Point
Welfare Centre—1st and 3rd Thurs. p.m.

Mrs. J. Delaney,
8, Boston Avenue,
Runcorn

Runcorn U.D.,
(Bridgewater & Mersey Wards)

34 Halton Road, Runcorn
Welfare Centre—Wed. a.m.
28 Halton Road, Runcorn
Eye Clinic—Tues. p.m.
Memorial Hospital, Runcorn
Paediatric Clinic—Wed. p.m.
28 Halton Road, Runcorn
Preparation Class—Fri. p.m.

H.V.'s attend on rota the clinic opposite

DISTRICT No. 7b.

Miss S. E. Robinson,
10, Stanley Villas,
Runcorn
(Tel. Runcorn 2556)

Aston
Daresbury
Dutton
Halton
Hatton
Kingsley
Moore

Norley
Norton
Preston Brook
Sutton
Walton
Whitley

Hurst Methodist Church, Kingsley
Welfare Centre—2nd and 4th Wed. p.m.
65 Whitefield Road, Stockton Heath
Screening Clinic—as required

DISTRICT No. 8.

Miss R. Potter,
262, Padgate Lane,
Padgate,
Warrington

Alvanley
Frodsham
Helsby

Manley

The Rock, Frodsham (Tel. Frodsham 2388)
Welfare Centre—Alt. Tues. p.m.
Ante-Natal Clinic—Thurs. p.m.
Screening Clinic—1st and 3rd Fri. p.m.
Eye Clinic—2nd Wed. a.m. 4th Thurs. a.m.

Cable Works, Helsby
Welfare Centre—Alt. Tues. p.m.
55 Hoole Road, Chester
Screening Clinic—2nd, and 4th Fri. p.m.

DISTRICT No. 9a

Miss L. Millet,
338, Oldfield Road,
Altrincham

Acton
Anderton
Barnton
Comberbach
Crowton

Great Budworth
Little Leigh
Marbury

Methodist Church, Barnton
Welfare Centre—2nd and 4th Wed. p.m.
M.A. Clinic—2nd & 4th Wed. (2 p.m).
Screening Clinic—2nd & 4th Wed. a.m.
23 Church Lane, Weaverham
Welfare Centre—Tues. p.m.
Parish Hall, Comberbach
Welfare Centre—1st and 3rd Wed. p.m.
Screening Clinic—3rd Wed. a.m;

DISTRICT No. 9b.

Mrs. J. Bleazard,
Cartref,
West Road,
Weaverham,
Northwich

Weaverham

23 Church Lane, Weaverham
Welfare Centre—Tues. p.m.
Young Children's Clinic—3rd Mon. p.m.
Preparation Class—Thurs. p.m.
M.A. Clinic—Fri. a.m.
Screening Clinic—Fri. a.m.
Eye Clinic—3rd Fri. p.m.

DISTRICT No. 10.

Miss F. M. Pickford,
327 London Road,
Davenham,
Northwich

Knutsford U.D. (West Ward)
Aston-by-Bud'th Peover Inferior
Bexton Pickmere
Mere Plumley
Nether Peover Tabley Inferior
Tabley Superior

County Offices, Bexton Road, Knutsford
Welfare Centre—Wed. p.m.
Immunisation Clinic—Last Thurs. a.m.
The Institute, Lower Peover
Welfare Centre—2nd Mon. p.m.
Village Hall, Plumley
Welfare Centre—1st and 3rd Thurs. p.m.

Miss H. M. Dawson,
Bollin Grove,
Prestbury,
Macclesfield

Knutsford U.D. (Over and Nether
Wards)
Goostrey
Ollerton
Peover Superior
Toft

County Offices, Bexton Road, Knutsford
(Tel. Knutsford 273)
Welfare Centre—Wed. p.m.
Young Children's Clinic—4th Thurs. p.m.
(alt. months)
M.A. Clinic—2nd Wed. a.m.
Screening Clinic—2nd and 4th Fri. a.m.
Eye Clinic—3rd Thurs. p.m.
Social Club, Goostrey
Welfare Centre—1st and 3rd Tues. p.m.
Parish Room, Over Peover
Welfare Centre—1st and 3rd Mon. p.m.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 11. Miss M. Owen, 15, Roughey Gardens, Brownley Green, Wythenshawe, Manchester	Northwich U.D. (Wotton and Northwich BA Wards)	Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186) Welfare Centre—Thurs. p.m. Young Children's Clinic—1st Wed. p.m. Preparation Class—Mon. p.m. Screening Clinic—1st and 2nd Wed. a.m.
Mrs. E. E. Conlin, 38 King Street, Knutsford	Northwich U.D. (Castle and Winnington Wards)	Darland House, Winnington Hill, Northwich (Tel. Northwich 4643) Welfare Centre—Tues. p.m. M.A. Clinic—Tues. a.m. Paediatric Clinic—4th Mon. p.m. Screening Clinic—Thurs. p.m.
DISTRICT No. 12a, Mrs. M. T. H. Twigg, 23 Amhurst Road, Mauldeth Road, Withington, Mc. 20 (Tel. Rusholme 9423)	Ailstock Lach Dennis Lostock Gtalam Marston Rudheath Wharcroft Wincham	Parkfield, Middlewich Road, Northwich Welfare Centre—Thurs. p.m. Preparation Class—Mon. p.m. E.N.T. Clinic—2nd Wed. a.m. Alkali Social Club, Lostock Gtalam Welfare Centre—2nd and 4th Wed. p.m.
DISTRICT No. 12b. Miss P. Holt, Ivy House, Dunham Town, Altrincham (Tel. Altrincham 2505)	Cuddington Hartford	Parkfield, Middlewich Road, Northwich Eye Clinic—1st, 2nd & 3rd Thurs. a.m. Methodist Chapel, Hartford Welfare Centre—2nd & 4th Tues. p.m. Church Hall, Sandiway Welfare Centre—1st & 3rd Tues. p.m. 23 Church Lane, Weaverham Screening Clinic—Fri. a.m. Young Children's Clinic—1st Thurs p.m.
DISTRICT No. 13a Mrs. M. Brown Seatoller, Northwich Road, Weaverham, Northwich (Tel. Weaverham 2357)	Winsford U.D. (Vale Royal & Wharton Wards) Darnhall Marton Little Budworth Moulton Oakmere	98 Weaver Street, Winsford (Tel. Winsford 2387) Young Children's Clinic—1st Thurs. p.m. Welfare Centre—Fri. p.m. Young Children's Clinic—1st Thurs. p.m. Preparation Class—Wed. p.m. Eye Clinic—1st Thurs. a.m. 3rd & 4th Thurs. p.m. Screening Clinic—1st Tues. p.m. Church Hall, Moulton Welfare Centre—3rd Wed. p.m.
DISTRICT No. 13b. Miss J. M. Gassick, 471, Chester Road, Hartford, Nr. Northwich (Tel. Sandiway 2040)	Winsford U.D. (Gravel, Over & Swanlow Wards)	98 Weaver Street, Winsford Welfare Centre—Fri. p.m. Young Children's Clinic—1st Thurs. p.m. Preparation Class—Wed. p.m. M.A. Clinic—Fri. 2 p.m. E.N.T. Clinic—2nd Tues. p.m. Screening Clinic—1st Tues. p.m. Methodist Church, Davenham Screening Clinic—1st Mon. p.m. Farm of the Good Shepherd, Leftwich Screening Clinic—4th Tues. p.m.
DISTRICT No. 14a. Miss M. Barlow, Tarnhow St. Oswald's Crescent, Bicreton, Sandbach (Tel. Holmes Chapel 2318)	Middlewich U.D. Sproston Byley Church Hulme Crannage	85 Wheelock Street, Middlewich Welfare Centre—Mon. p.m. Young Children's Clinic—3rd Wed. p.m. Eye Clinic—3rd Tues. p.m. Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Mother's Union Hut, Holmes Chapel Welfare Centre—2nd & 4th Tues. p.m.
DISTRICT No. 14b, Miss A. Gatrix, 85, Wheelock Street, Middlewich (Tel. Middlewich 165)	Northwich U.D. (Northwich BB Bostock Davenham Ward) Stanthorne Tetton Wimboldsley	85 Wheelock Street, Middlewich Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Darland House, Winnington Hill, Northwich Screening Clinic—1st Thurs. p.m. Methodist Church, Davenham Welfare Centre—1st Mon. p.m. Farm of the Good Shepherd, Leftwich Welfare Centre—2nd & 4th Tues. p.m. Midwives Clinic—2nd & 4th Tues. p.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 15.

Miss E. M. Scott,
151, Welsh Row,
Nantwich

Nantwich U.D.
(Barony and Wellington Wards)
Alraham Leighton
Aston-juxta Minshull Vernon
Mondrum Poole
Calveley Wardle
Cholmondeston Wettenhall
Church Minshull Woolstanwood
Henhull Worleston

The Dowery, Barker Street, Nantwich
(Tel. Nantwich 65360)
Welfare Centre—*Thurs. p.m.*
Preparation Class—*Mon. p.m.*
M.A. Clinic—*2nd Mon. a.m.*
Screening Clinic—*2nd and 4th Fri. p.m.*

DISTRICT No. 16a

Mrs. F. G. Kirkham,
St. Bees,
Marsh Lane,
Nantwich

Nantwich U.D. (Weaver Ward)
Acton Edleston
Baddiley Faddiley
Baddington Haughton
Brindley Hurleston
Broomhall Peckforton
Bulkeley Ridley
Bunbury Sound
Burland Spurstow
Cholmondeley Stoke
Chorley Woodcott

The Dowery, Barker Street, Nantwich
Welfare Centre—*2nd & 4th Thurs. p.m.*
Young Children's Clinic—*1st Wed. a.m.*
Oddfellows Hall, Bunbury
Welfare Centre—*1st and 3rd Fri. p.m.*

DISTRICT No. 16b.

Miss D. Griffiths,
East View,
Little Heath,
Audlem

Audlem Hankelow
Austerston Hatherton
Batherton Houz
Blakenhall Hunsterson
Bridgemere Lea
Buerton Marbury
Checkley-cum-Newhall
Wrinehill Norbury
Chorlton Stapeley
Coole Pilate Walgherton
Dodcott-cum-Wirswall
Wilkesley Wrenbury
Doddington Wybunbury

The Dowery, Barker Street, Nantwich
Screening Clinic—*2nd and 4th Fri. p.m.*
Eye Clinic—*2nd, 3rd, 4th and 5th Thurs. a.m.*
Parish Hall, Wrenbury
Welfare Centre—*2nd and 4th Wed. p.m.*
Methodist Church Hall, Audlem
Welfare Centre—*1st and 3rd Tues. p.m.*

DISTRICT No. 16c

Miss R. Walch,
Wychdale, Colleys Lane,
Willaston, Nantwich

Willaston
Wistaston

Stalbridge Road, Crewe
Paediatric Clinic—*1st Fri. p.m.*
Memorial Hall, Church Lane, Wistaston
Welfare Centre—*2nd and 4th Wed. p.m.*

DISTRICT No. 17a

Mrs. A. Clayton,
The Dowery,
Barker Street,
Nantwich

Nantwich U.D. (Willaston Ward)
Barthomley Shavington-
Crewe (Rural) cum-Gresty
Basford Warmingham
Haslington Weston
Rope

The Dowery, Barker Street, Nantwich
Welfare Centre—*1st and 3rd Thurs. p.m.*
Screening Clinic—*2nd Fri. p.m.*
M.A. Clinic—*4th Mon. a.m.*
Yoxall Institute, Haslington
Welfare Centre—*1st and 3rd Tues. p.m.*
Church Hall, Shavington
Welfare Centre—*2nd and 4th Tues. p.m.*

DISTRICT No. 17b

Miss A. Mullany,
151, Welsh Row,
Nantwich

Crewe M.B.
(South District)

Stalbridge Road, Crewe (Tel. Crewe 2450)
Welfare Centre—*Mon. p.m. Wed. a.m.*
M.A. Clinic—*Tues. a.m.*
Screening Clinic—*1st, 3rd & 5th Wed. p.m.*

Mrs. F. E. Strowbridge,
60, Sandilands Park,
Wistaston, Crewe

Crewe M.B.
(Central District)

Stalbridge Road, Crewe
Welfare Centre—*1st, 3rd & 5th Mon. p.m. Wed. a.m.*
Young Children's Clinic—*3rd Fri. p.m.*
Screening Clinic—*1st, 3rd, & 5th Wed. p.m.*

Mrs. R. Davies,*
84, Church Lane,
Wistaston, Crewe

Crewe M.B.
(S.W. District)

Stalbridge Road, Crewe
Welfare Centre—*2nd and 4th Mon. p.m.*
Paediatric Clinic—*1st Fri. p.m.*
Minshull New Road, Crewe
Welfare Centre—*1st, 3rd & 5th Tues. p.m.*

CIVIL PARISHES			CENTRES & CLINICS
District No. 17b—cont.			
Mrs. L. M. D. Atkinson,* 12, Crewe Road. Shavington	Crewe M.B. (East District)		Stalbridge Road, Crewe Screening Clinic—2nd and 4th Wed. p.m.
Miss E. Broom,* 10, Clifton Avenue, Crewe	Crewe M.B. (North Central District)		Ludford Street, Crewe (Tel. Crewe 2376) Paediatric Clinic—3rd Fri. p.m.
Miss J. S. Reid,* 199, Edleston Road, Crewe	Crewe M.B. (West & Coppenhall District)		Ludford Street, Crewe Young Children's Clinic—1st Fri. p.m. E.N.T. Clinic—3rd Wed. a.m. Stalbridge Road, Crewe Screening Clinic—2nd & 4th Wed. p.m. Minshull New Road, Crewe Welfare Centre—1st, 3rd & 5th Tues. p.m.
*These Health Visitors also attend on rota the four other Clinics listed opposite.			Ludford Street, Crewe Welfare Centre—Thurs. a.m. and p.m. Ante-Natal Clinic—Mon. and Tues. p.m. M.A. Clinic—Mon. a.m. Eye Clinic—1st, 2nd, 4th & 5th Fri. a.m.
§These Health Visitors also attend the Clinics listed opposite.			Stalbridge Road, Crewe Young Children's Clinic—3rd Fri. p.m. Preparation Class—Thurs. p.m. Eye Clinic—as required
DISTRICT No. 17c. Miss E. G. Smith. 42, Primrose Avenue, Haslington. Crewe	Alsager U.D. Betchton	Hassall	15 Centre Court, Alsager (Tel. Alsager 628) Preparation Class—Thurs. p.m. M.A. Clinic—1st & 3rd Fri., 11—12 noon Screening Clinic—2nd Tues. p.m. Eye Clinic—1st and 3rd Wed. a.m. St. Mary's Sunday School, Alsager 1st and 3rd Tues. a.m. and p.m.
DISTRICT No. 18a. Miss M. A. Cowley,* Bridge House, Glebe Avenue, Grappenhall, Nr. Warrington		Grappenhall	Methodist Sunday School, Grappenhall Welfare Centre—Tues. p.m. Screening Clinic—2nd and 4th Fri. p.m.
Miss M. Lea. * 18, Oughtrington Lane, Lymm	Antrobus Appleton	Stretton	65 Whitefield Road, Stockton Heath Screening Clinic—as required Methodist Sunday School, Grappenhall Screening Clinic—2nd and 4th Fri. p.m.
DISTRICT No. 18b. Miss M. Newbold, * 62, Fairfield Gardens, Stockton Heath, Warrington	Stockton Heath		65 Whitefield Road, Stockton Heath (Tel. Stockton H. 925) Welfare Centre—Mon. p.m. Young Children's Clinic—2nd Thurs p.m. (even monhs) Screening Clinic—As required Eye Clinic—4th Tues. p.m. Preparation Class—Wed. p.m.
*These H.V's attend on rota the clinic opposite			
DISTRICT No. 19 Miss F. L. Govan, 29, Eagle Brow, Lymm, Warrington	Lymm U.D. High Legh	Warburton	29 Eagle Brow, Lymm (Tel. Lymm 277) Welfare Centre—Tues. p.m. Young Children's Clinic— 2nd & 4th Wed. p.m. Midwives Clinic—Thurs. p.m. M.A. Clinic—Wed. a.m. Screening Clinic—Mon. p.m. Eye Clinic—4th and 5th Thurs. p.m. Women's Institute, Sandy Lane, Heatley Welfare Centre—1st and 3rd Wed. p.m. St. Mary's Institute, Partington. Screening Clinic—4th Fri. a.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 20.

Mrs. J. M. Taylor,*
19, Atkinson Road,
Sale

Sale M.B.
(St. Martin's & Mersey (NP
Wards)

Mrs. E. Heywood,*†
70, Chapel Road, Sale
(Tel. Sale 1329)

Sale M.B.
(Sale Moor Ward)

Mrs. M. Holmes*
60, Broad Road,
Sale

Sale M.B.
(St. Anne's NB &
St. John's Wards)

Miss B. Cunliffe,*
76, Harboro' Road,
Sale

Sale M.B.
(St. Mary's and Brooklands
Wards)

Mrs. A. Metcalfe*†
10, Ravenwood Drive,
Hale Barns

Sale M.B.
(St. Paul's, St. Anne's (NA &
NC & Mersey (NQ & NR)
Wards)

*These Health Visitors also attend on rota
the Clinics opposite.

† do.

Raglan Road, Sale
Welfare Centre—*Tues p.m.*
Brookes Institute, Sale
Welfare Centre—*Fri. p.m.*
70 Chapel Road, Sale
Young Children's Clinic—*3rd Mon. p.m.*
Community Centre, Sale Moor
Welfare Centre—*Thurs. p.m.*
70 Chapel Road, Sale
Young Children's Clinic—*3rd Mon. p.m.*
M.A. Clinic—*Wed. a.m.*
Screening Clinic—*Tues. a.m.*
70 Chapel Road, Sale
Welfare Centre—*Tues. p.m.*
Ante and Post Natal Clinic—*Wed. p.m.*
Screening Clinic—*Tues. a.m.*
Community Centre, Sale Moor
Welfare Centre—*Thurs. p.m.*
Raglan Road, Sale
Welfare Centre—*Tues. p.m.*
Brookes Institute, Sale
Welfare Centre—*Fri. p.m.*
70 Chapel Road, Sale
Welfare Centre—*Tues. and Thurs. p.m.*
Preparation Class—*Wed. p.m.*
Screening Clinic—*Tues. a.m.*
70 Chapel Road, Sale
Eye Clinic—*Mon. p.m.*
Immunisation Clinic—*Fri. a.m.*
Sun-ray Clinic—*Mon. and Fri. p.m.*

DISTRICT No. 21a.

Miss E. Edwards,
Top Flat,
1, Hawthorn Road,
Hale,
Altrincham

Hale U.D.
(North, Central & West Wards)
Ashley

Miss A. Milvenan,
1, Bollin Court,
Bowdon,
Altrincham

Bowdon U.D.
Hale U.D. (Hale Barns Ward)
Ringway Rostherne
Tatton

9 Broomfield Lane, Hale (Tel. Alt. 4653)
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*4th Tues. p.m.*
M.A. Clinic—*Fri. p.m.*
Eye Clinic—*Tues. a.m.*
Vaccination and Immunisation Clinic—
1st Thurs. a.m.
Polio Vaccination Clinic—*1st Fri. a.m.*
9 Broomfield Lane, Hale
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*4th Tues. p.m.*
(even months)
Screening Clinic—*2nd & 4th Fri. a.m.*
Polio Vaccination Clinic—*1st Fri. a.m.*
Methodist Schoolroom, Bowdon
Welfare Centre—*2nd & 4th Thurs. p.m.*
Unitarian Schoolroom, Hale Barns
Welfare Centre—*1st & 3rd Thurs. p.m.*

DISTRICT No. 21b

Miss L. E. H. Tripp,
Sampford Brett,
Wainwright Road,
Altrincham
(Tel. Altrincham 1884)

Agden Dunham Massey
Bollington Millington
Carrington

Miss B. J. Hickson,
Flat No. 1,
Fernside,
Dunham Road,
Altrincham

Partington

Mrs. F. Pickering,
16, Denstone Ave.,
Davyhulme, Urmston,
Manchester

Altrincham M.B.
(Dunham & North Wards)

St. Mary's Institute, Partington
Welfare Centre—*Thurs. p.m.*
Clairholme, Manchester Road, Carrington
Welfare Centre—*2nd Fri. p.m.*
29 Eagle Brow, Lymm
Screening Clinic—*2nd & 4th Mon. p.m.*
St. Mary's Institute, Partington
Welfare Centre—*Thurs. p.m.*
Screening Clinic—*Last Fri. a.m.*
Vaccination & Immunisation Clinic—
Tues. a.m.
Polio Vaccination Clinic—*4th Thurs.*
7-8 p.m.
12 The Mount, Altrincham (Tel. Alt. 1733)
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*2nd Thurs p.m.*
(even months)
M.A. Clinic—*Mon. a.m. (even months)*
Screening Clinic—*1st & 3rd Tues. a.m.*

District No. 21b—cont.

Mrs. K. M. Connor,
6, The Mount,
Altrincham

Altrincham M.B.
(East, Central & South West
Wards)

12 The Mount, Altrincham
Welfare Centre—Mon. & Wed. p.m.
Young Children's Clinic—2nd Thurs. p.m.
(odd months)
M.A. Clinic—Mon. a.m. (odd months)
Screening Clinic—1st & 3rd Tues. a.m.
Vacc. and Immunisation Clinic—2nd Wed.
a.m.

Mrs. E. G. Morrison, *
21, Thorley Lane,
Timperley.

Altrincham M.B.
(Timperley No. 1 & No. 3 Wards)

9 Broomfield Lane, Hale
Screening Clinic—1st & 3rd Fri. a.m.
145 Park Road, Timperley (Tel. Sale 6639)
Welfare Centre—Tues. & Thurs. p.m.
Young Children's Clinic—1st Thurs. p.m.
Ante-Natal Clinic—2nd & 4th Mon. a.m.
Screening Clinic—2nd & 4th Thurs. a.m.
65 Briarfield Road, Broomwood, Timperley
(Tel. Ringway 4339)
Screening Clinic—2nd & 4th Wed. a.m.

Mrs. F. M. Whitworth, *
5, Mayfield Close,
Timperley

Altrincham M.B.
(Timperley No. 4. (AU, AV and
AW) Ward)

145 Park Road, Timperley
Welfare Centre—Thurs. p.m.
Ante-Natal Clinic—2nd & 4th Mon. a.m.
Screening Clinic—2nd & 4th Thurs. a.m.
65 Briarfield Road, Broomwood, Timperley
Welfare Centre—Mon. p.m.
Screening Clinic—2nd & 4th Wed. a.m.

Miss E. Cottrell,*
9, Carrington Lane,
Ashton-on-Mersey

Altrincham M.B.
(Timperley No. 2 & No. 4 (AS &
AT) Wards)

145 Park Road, Timperley
Welfare Centre—Tues. a.m. & p.m.
Ante-Natal Clinic—2nd & 4th Mon. a.m.
M.A. Clinic—Wed. a.m.
145 Park Road, Timperley
Preparation Class—Mon. a.m.

*These H.V.'s attend on rota the Clinic opposite

DISTRICT No. 22a

Miss C. M. Marsh,
23, King's Close,
Wilmslow,
Cheshire

Alderley Edge U.D.
Wilmslow U.D. Chorley
(Hough & Morley Great Warford
Wards) Marthall
Mobberley

3 Alma Lane, Wilmslow (Tel. Wilmslow 2635)
Welfare Centre—Thurs. p.m.
Screening Clinic—Alt. Fri. a.m.
Church Institute, Alderley Edge
Welfare Centre—Fri. p.m.
Victory Hall, Mobberley
Welfare Centre—Alt. Tues. p.m.

DISTRICT No. 22b

Miss K. Halstead,
11, Park Road,
Cheadle

Wilmslow U.D.
(Dean Row, pt. i., Handforth
& Styal Wards)

The Green, Wilmslow Road, Handforth
(Tel. Wilmslow 5767)
Welfare Centre—2nd & 4th Mon. p.m.
Young Children's Clinic—1st Wed. a.m.
Preparation Class—Tues. p.m.
Screening Clinic—3rd Fri. a.m.
3 Alma Lane, Wilmslow
Screening Clinic—1st & 3rd Fri. a.m.
Methodist Church, Heald Green
Welfare Centre—1st & 3rd Thurs. p.m.

DISTRICT No. 22c

Miss D. M. Bowers,
1, Albany Road,
Wilmslow,
Cheshire

Wilmslow U.D.
(Dean Row, pt. ii, and Fulshaw
Wards)

3 Alma Lane, Wilmslow
Welfare Centre—Thurs. p.m.
Young Children's Clinic—2nd Wed. p.m.
M.A. Clinic—Thurs. 9—10 a.m.
Screening Clinic—1st Fri. a.m.
Eye Clinic—1st Tues. p.m.
Parish Hall, Barlow Road, Lacey Green
Welfare Centre—1st & 3rd Mon. p.m.

DISTRICT No. 23a

Miss N. R. Williams,
Ivy Cottage,
Snelson,

Bosley
Chelford
Eaton
Gawsworth

Nether Alderley
Over Alderley
Prestbury
Siddington

Wellington Road, Bollington
(Tel. Bollington 2376)
Welfare Centre—1st & 3rd Wed. p.m.
Prestbury Welfare Centre—
2nd & 4th Thurs. p.m.
Screening Clinic—Tues. a.m. (except 1st)
Park Lane, Poynton
Screening Clinic—4th Tues. p.m.

Chelford,
Macclesfield

Henbury
Hulme Walfield
Marton
Mottram-St.-
Andrew
North Rode

Somerford
Somerford Booths
Snelson
Swettenham
Twemlow
Withington

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 23b.

Miss E. F. Bell
Flat 1,
Sunnybank,
London Road,
Macclesfield

Macclesfield M.B.
(Central District)

52 Bridge Street, Macclesfield
(Tel. Macc. 5501)
Welfare Centre—*Mon. p.m.*
Young Children's Clinic—*4th Tues. p.m.*
Ante-Natal Clinic—*1st & 3rd Wed. p.m.*
Hurdsfield House, Macclesfield
(Tel. Macc. 3282)
Preparation Class—*2nd & 4th Wed. p.m.*

Miss F. M. Yates,
17, Newhall Street,
Macclesfield

Macclesfield M.B.
(South West District)

Sanders Square, Macclesfield
(Tel. Macc. 3800)
Welfare Centre—*Fri. p.m.*
Young Children's Clinic—*2nd Thurs. p.m.*
Ante-Natal Clinic—*4th Wed. p.m.*
Preparation Class—*Mon. p.m.*
Screening Clinic—*4th Wed. a.m.*
Immunisation Clinic—*4th Thurs. p.m.*
52 Bridge Street, Macclesfield
Ante-Natal Clinic—*1st Wed. p.m.*
Screening Clinic—*1st Wed. a.m.*
Hurdsfield House, Macclesfield
Ante-Natal Clinic—*2nd Wed. p.m.*

Miss A. Grills,
Springfield (Flat 3),
Byron's Lane,
Macclesfield

Macclesfield M.B.
(North East District)

Hurdsfield House, Macclesfield
(Tel. Macc. 3282)
Welfare Centre—*Thurs. p.m.*
Young Children's Clinic—*1st Tues. p.m.*
Ante-Natal Clinic—*2nd Wed. p.m.*
Preparation Class—*1st Wed. p.m.*
Screening Clinic—*2nd Wed. a.m.*
Immunisation Clinic—*3rd Tues. p.m.*
Sanders Square, Macclesfield
Ante-Natal Clinic—*4th Wed. p.m.*
Screening Clinic—*4th Wed. a.m.*
52 Bridge Street, Macclesfield
Ante-Natal Clinic—*3rd Wed. p.m.*

Miss T. Martin,
52, Bridge Street,
Macclesfield

Macclesfield M.B.
(North West District)

52 Bridge Street, Macclesfield
Welfare Centre—*1st, 2nd & 4th Mon. p.m.*
Ante-Natal Clinic—*1st & 3rd Wed. p.m.*
Screening Clinic—*1st & 3rd Wed. a.m.*
Pierce Street, Macclesfield (Tel. Macc. 3053)
M.A. Clinic—*Tues. & Fri. a.m.*
E.N.T. Clinic—*3rd Mon. p.m.*
Heyes Hall, Weston
Welfare Centre—*Fri. p.m.*

Miss W. G. Grimstone,
Rockville,
Cote Green Road,
Marple Bridge

Macclesfield M.B.
(South East District)

Hurdsfield House, Macclesfield
Welfare Centre—*Thurs. p.m.*
Ante-Natal Clinic—*2nd Wed. p.m.*
Preparation Class—*3rd Wed. p.m.*
Screening Clinic—*2nd Wed. a.m.*
Pierce Street, Macclesfield
Eye Clinic—*1st Mon. p.m., 1st, 3rd & 4th Tues. p.m. 4th Thurs. a.m.*

There is also a part-time School Nurse,
Mrs. P. Swindells,
63, Byron Street,
Macclesfield

Sanders Square, Macclesfield
Ante-Natal Clinic—*4th Wed. p.m.*
52 Bridge Street, Macclesfield
Screening Clinic—*3rd Wed. a.m.*

DISTRICT No. 24a

Miss L. Jacks,
Abbey Croft,
Abbey Road,
Sandbach

Sandbach U.D. (W. & N. Wards)
Bradwall
Elton

Platt Avenue, Middlewich Road, Sandbach
(Tel. Sandbach 970)
Welfare Centre—*Tues. p.m. & 1st & 3rd Tues. a.m.*
Preparation Class—*Alt. Fri. p.m.*
Screening Clinic—*Alt. Wed. a.m.*
Eye Clinic—*2nd, 3rd & 4th Mon. p.m.*

DISTRICT No. 24b

Miss M. E. Slack,
Castle View,
Astbury Lane Ends,
Congleton

Sandbach U. D. (E. Ward)
Arclid
Brereton

Platt Avenue, Middlewich Road, Sandbach
Welfare Centre—*Tues. p.m. and 2nd & 4th Tues. a.m.*
Young Children's Clinic—*2nd Fri. a.m.*
Preparation Class—*Alt. Fri. p.m.*
M.A. Clinic—*1st & 3rd Fri. a.m.*
E.N.T. Clinic—*4th Fri. a.m.*

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 25 Miss M. Corbishley, 32, Symondley Road, Sutton. Macelesfield	Congleton M.B. (Buglawton & South Wards) Moreton-cum-Aleumlow Newbold Astbury	Park Street, Congleton (Tel. Congleton 2095) Welfare Centre—Mon. p.m. Young Children's Clinic—2nd Thurs. p.m. Ante-Natal Clinic—Fri. p.m. Screening Clinic—Wed. a.m.
Miss D. Austin, 120, High Street, Talke Pits, Stoke-on-Trent, Staffs.	Congleton M.B. (North & West Wards)	Park Street, Congleton Welfare Centre—Mon. p.m. M.A. Clinic—Fri. a.m. Screening Clinic—Wed. a.m. E.N.T. Clinic—4th Tues. p.m.
DISTRICT No. 25b Miss B. Richardson, The White House, Crewe Road, Alsager, Stoke-on-Trent Tel. Alsager 395)	Smallwood Odd Rode Church Lawton	Methodist Sunday School, Mow Cop Welfare Centre—1st & 3rd Wed. p.m. The Institute, Rode Heath Welfare Centre—2nd & 4th Mon. p.m. Village Hall, Scholar Green Welfare Centre—2nd & 4th Wed. p.m. 15 Centre Court, Alsager Preparation Class—Thurs. p.m. Screening Clinic—2nd Tues. p.m. E.N.T. Clinic—3rd Fri. p.m.
DISTRICT No. 26a Mrs. M. B. Batty, 14, Parrswood Court, Manchester, 20 (Tel. Didsbury 5429)	Cheadle and Gatley U.D. (Cheadle Hulme (S) and Adswood Wards)	All Saints' Parish Room, Cheadle Hulme Welfare Centre—Tues. p.m. Screening Clinic—2nd Tues. a.m. Eye Clinic—2nd & 3rd Thurs. a.m. Mission Hall, Adswood Welfare Centre—1st & 3rd Mon. p.m. Brookfield, Wilmslow Road, Cheadle E.N.T. Clinic—4th Wed. a.m.
DISTRICT No. 26b. Miss W. C. Heron, 83, Turves Road, Cheadle Hulme Stockport	Cheadle and Gatley U.D. (Cheadle East and West Wards)	Brookfield, Wilmslow Road, Cheadle (Tel. Gatley 6290) Welfare Centre—Tues. p.m. Young Children's Clinic—3rd Wed. p.m. M.A. Clinic—1st & 2nd Mon. a.m. Screening Clinic—Wed. a.m. Eye Clinic—Tues. a.m.
DISTRICT No. 26c Miss N. Hecnan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley Ward)	Brookfield, Wilmslow Road, Cheadle Ante-Natal Clinic—Mon. p.m. Preparation Class—1st, 3rd & 5th Thurs. p.m. Cong. Sunday School, Gatley Welfare Centre—2nd & 4th Thurs. p.m. 3rd Wed. p.m. Young Children's Clinic—4th Wed. p.m. All Saints' Parish Room, Cheadle Hulme Screening Clinic—2nd Tues. a.m.
DISTRICT 26d Miss I. C. G. Harrison, 13, Victoria Avenue, Cheadle Hulme, (Tel. Hulme Hall 1883)	Cheadle and Gatley U.D. (Cheadle Hulme (N) Ward)	St. Andrew's Parish Hall, Orrishmere Estate Cheadle Hulme Welfare Centre—2nd & 4th Mon. p.m. Brookfield, Wilmslow Road, Cheadle Screening Clinic—Wed. a.m.
DISTRICT No. 26e, Miss J. V. Smith, Flat 2, 9, Mill Lane, Northenden, Manchester	Cheadle and Gatley U.D. (Heald Green Ward)	Methodist Church, Heald Green Welfare Centre—1st & 3rd Thurs. p.m.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 27a. Miss G. M. Bullough, 4, Belvoir Avenue, Hazel Grove, Nr. Stockport	Hazel Grove and Bramhall U.D. (North Ward)	253 London Road, Hazel Grove (Tel. Stepping Hill 3842/3) Ante-Natal Clinic—1st & 3rd Wed. p.m. Civic Hall, Hazel Grove Welfare Centre—Tues. a.m. & p.m. Young Children's Clinic—1st Tues. am.
DISTRICT No. 27b. Mrs. B. E. Crosby, 27, Earle Road, Bramhall, Stockport (Tel. Bramhall 1776)	Hazel Grove and Bramhall U.D. (Woodford and South Wards)	Civic Hall, Hazel Grove Welfare Centre—Alt. Tues a.m. 253 London Road, Hazel Grove M.A. Clinic—2nd Tues. a.m. Screening Clinic—3rd Fri. p.m. Methodist Sunday School, Bramhall Welfare Centre—1st & 3rd Mon. p.m. Brookdale Club, Bridge Lane, Bramhall Welfare Centre—2nd & 4th Fri. p.m. Civic Hall, Hazel Grove Welfare Centre—Tues. p.m. & Alt. Tues. a.m.
DISTRICT No. 27c. Miss M. Berrisford, 59, Reddish Vale Road, Reddish, Stockport (Tel. Stockport 5683)	Hazel Grove and Bramhall U.D. (East Ward)	253 London Road, Hazel Grove Screening Clinic—3rd Fri. p.m. E.N.T. Clinic—1st Fri. p.m. (odd months) Eye Clinic—1st & 4th Thurs. a.m.
DISTRICT No. 28. Miss M. R. Adamson, 47 Ovenhouse Lane, Bollington, Macclesfield	Bollington U.D Huddersfield Macclesfield Forest	Rainow Sutton Wildboarclough Windle Wellington Road, Bollington (Tel. Boll. 2376. Welfare Centre—2nd & 4th Thurs. p.m. Rainow Welfare Centre— 1st & 3rd Wed. p.m. M.A. Clinic—1st Tues. a.m. Screening Clinic—Tues. a.m. (except 1st) Eye Clinic—2nd Tues. p.m. Sanders Square, Macclesfield Sutton Welfare Centre—1st & 3rd Thurs. p.m.
DISTRICT No. 29a. Miss S. Morris, 47, Greenway, Romiley, Nr. Stockport	Bredbury and Romiley U.D. (Bredbury N. & S. Wards)	Lower Bent's Lane, Bredbury (Tel. Woodley 2892) Welfare Centre—Tues. p.m. Young Children's Clinic—1st Thurs. p.m. Ante-Natal Clinic—2nd & 4th Wed. p.m. Screening Clinic—4th Thurs. a.m. Eye Clinic—1st & 2nd Thurs. a.m.
DISTRICT No. 29b Mrs. A. D. Law 5, Jubilee Street, New Mills, Stockport	Bredbury and Romiley U.D. (Romiley, E. & W. Compstall and Woodley Wards)	Leyfield Avenue, Romiley (Tel. Woodley 2891) Welfare Centre—Thurs. p.m. Young Children's Clinic—2nd Thurs. a.m. Preparation Class—Tues. p.m. Screening Clinic—4th Tues. a.m. Immunisation Clinic—4th Thurs. a.m. Lower Bent's Lane, Bredbury Screening Clinic—4th Thurs. a.m.
DISTRICT No. 29c Miss E. Plaiter, North View, New Mills Road, Birch Vale, Stockport Mrs. E. M. Cooney,* 212, Astley St., Dukinfield Miss D. P. Flint,* North View, New Mills Road, Birch Vale, Stockport	Stalybridge M.B. (Lancashire Ward) Stalybridge M.B. (Staley Ward, exc. G.E. S.4) Stalybridge M.B. (Millbrook Ward)	Mechanics' Institute, Stalybridge (Tel. STA 2304) Welfare Centre—Tues. & Wed. p.m. Ante and Post-Natal Clinic—2nd, 3rd and 4th Thurs. p.m. Mechanics' Institute, Stalybridge Welfare Centre—Wed. p.m. Screening Clinic—Tues. p.m. Eye Clinic—2nd, 3rd & 4th Tues. a.m. Huddersfield Road, Millbrook, Stalybridge (Tel. STA 2544) Welfare Centre—Mon. p.m. Preparation Class—Wed. p.m. M.A. Clinic—Mon. a.m. Mechanics' Institute, Stalybridge Screening Clinic—Tues. p.m.

CIVIL PARISHES

CENTRES & CLINICS

District No. 29c—*Cont.*

Miss M. E. Mackenzie,*
33, Thorn Road
Bramhall.

Stalybridge M.B.
(Dukinfield Ward, Staley
Ward, G.E. S.4)

Mechanics' Institute, Stalybridge
Welfare Centre—*Tues. p.m.*
M.A. Clinic—*Mon. a.m.*
Huddersfield Road, Millbrook
Welfare Centre—*Mon. p.m.*

* These health visitors also take on rota the
other clinic opposite.

Mechanics' Institute, Stalybridge
Ante and Post Natal Clinic—*2nd, 3rd and
4th Thurs. p.m.*

DISTRICT No. 30

Miss W. E. Beresford
87, Manchester Road,
Tintwistle

Dukinfield M.B.
(Central Ward & West Ward
BB)

134 King Street, Dukinfield
(Tel. Ash. 3794)
Welfare Centre—*Wed. & Thurs. p.m.*
Screening Clinic—*1st & 3rd Wed. a.m.*

Miss. C. Hellings,
11, Shaw Hall Avenue,
Hyde

Dukinfield M.B.
(East Ward AE & AF)

134 King Street, Dukinfield
E.N.T. Clinic—*4th Mon. p.m.*
Eye Clinic—*1st, 2nd & 4th Fri. p.m.*

Mrs. M. Knowles,
189 Stamford Street,
Stalybridge

Dukinfield M.B.
(East Ward AD and West
Ward, BA)

134 King Street, Dukinfield
Welfare Centre—*Wed. a.m. & p.m.*
M.A. Clinic—*Tues. a.m.*
Screening Clinic—*1st & 3rd Wed. a.m.*

The Clinic opposite is taken by the three Health Visitors
in turn.

134 King Street, Dukinfield
Preparation Class—*Mon. p.m.*

DISTRICT No. 31a.

Miss D. Wood,
8, Marina Drive,
Rose Hill,
Marple,
Stockport

Longdendale U.D.
Tintwistle R.D.

Wedneshough Green, Hollingworth
Welfare Centre—*1st & 3rd Thurs. p.m.*
Midwives Clinic—*Tues. p.m.*
M.A. Clinic—*Tues. p.m.*
Screening Clinic—*4th Tues. a.m.*
Immunisation Clinic—*2nd Mon. p.m.*
Christ Church School, Tintwistle
Welfare Centre—*2nd & 4th Thurs. p.m.*
Wesleyan School, Broadbottom
Welfare Centre—*1st & 3rd Wed. p.m.*

DISTRICT No. 31b.

Miss F. Lonsdale,*
Woodhaven,
Woodend Lane,
Hyde

Hyde M.B.
(Godley Ward pt. i)

Parsonage Street, Hyde (Tel. Hyde 2628)
Welfare Centre—*Wed. p.m.*
Ante-Natal Clinic—*Thurs. p.m.*
Screening Clinic—*1st & 3rd Tues. a.m.*
Bayley Hall, Hyde
Screening Clinic—*2nd & 4th Mon. p.m.*
Bayley Hall, Hyde (Tel. Hyde 2265)
Welfare Centre—*Fri. p.m.*
Screening Clinic—*2nd & 4th Mon. p.m.*
Parsonage Street, Hyde
Screening Clinic—*1st Tues. a.m.*

Miss M. E. Marsh*
Thornbank,
Mottram Road,
Hyde

Hyde M.B.
(Newton Ward pt. i)

Bayley Hall, Hyde
Welfare Centre—*Tues. p.m.*

Mrs E. M. Lowe,*
12, Mill Lane,
Hazel Grove,
Nr. Stockport

Hyde M.B.
(Godley Ward pt. ii,
Newton Ward pt. iii)

Parsonage Street, Hyde
Welfare Centre—*Mon. & Wed. p.m.*
Screening Clinic—*3rd Tues. a.m.*
Reform Club, Hyde (Tel. Hyde 2689)
Specialists Eye Clinic—*1st Tues. a.m.,
3rd Fri. p.m.*

(Tel. Poynton 2665)

Miss M. Taylor,*
20, Primrose Avenue,
Hyde

Hyde M.B.
(Werneth Ward,
Newton Ward pt. ii)

Reform Club, Hyde
M.A. Clinic—*Mon. a.m.*

*These Health Visitors also attend on rota the other
Clinic opposite.

DISTRICT No. 32a.

Miss B. F. Sheppard,
Ashdene,
Leaffield Road,
Disley,
Stockport

Marple U.D.
(Ludworth, Mellor & North
Wards)

Memorial Park, Stockport Road, Marple
(Tel. Marple 1806)
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*1st Wed. a.m.*
Preparation Class—*Fri. p.m.*
M.A. Clinic—*2nd Wed. a.m.*
Screening Clinic—*4th Wed. a.m.*
Eye Clinic—*3rd Thurs. a.m.*
Methodist Sunday School, Marple Bridge
Welfare Centre—*2nd & 4th Thurs. p.m.*
Methodist Sunday School, Mellor
Welfare Centre—*1st & 3rd Thurs. p.m.*

(Tel. Disley 2268)

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 32b.
Miss B. Brewster,
Spout House Farm,
Strines,
Stockport
(Tel. Marple 1494)

Marple U.D.
(Cent. & South Wards)
Disley R.D.

Memorial Park, Stockport Road, Marple
(Tel. Marple 1800)
Welfare Centre—Wed. p.m.
Young Children's Clinic—1st Wed. p.m.
Screening Clinic—4th Wed. a.m.
Village Hall, High Lane
Welfare Centre—2nd & 4th Tues. p.m.
Gleneil House, Disley (Tel. Disley 62)
Welfare Centre—1st & 3rd Tues. p.m.

DISTRICT No. 33.
Miss F. E. Kilbourn,
Edendale,
Buxton Road,
Newtown.
New Mills,
Stockport

Adlington
Kettleshulme
Lyme Handley

Pott Shrigley
Poynton

Park Lane, Poynton (Tel. Poynton 2127)
Welfare Centre—Thurs. p.m.
Young Children's Clinic—3rd Tues. p.m.
Midwives Clinic—Mon. p.m.
M.A. Clinic—3rd Tues. p.m.
Screening Clinic—4th Tues. p.m.
E.N.T. Clinic—Even months, 3rd Wed. p.m.
Eye Clinic—2nd Tues. p.m.

HOME NURSES (157)

(Those marked * practise Midwifery)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Acton	Miss L. C. Jones*	The Grove, Acton, Nantwich	Nantwich 65571
Adlington	Mrs. K. A. Dawson*	Sunshine Cottage, Butley Lane, Adlington, Macclesfield	Prestbury 89360
Alderley	Mrs. M. Topley*	9, Orchard Crescent, Welsh Row, Nether Alderley	Alderley Edge 2505
Alderley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge, Cheshire	Alderley Edge 3364
Aldford	Mrs. D. Mellor*	Nurse's Cottage, Aldford, Chester	Aldford 37
Alsager	Mrs. E. Weatherall	25, Cresswellshawe Road, Alsager, Stoke on Trent	Alsager 67
Altrincham	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham 2550
	Mrs. A. Warburton	59, Ashfield Road, Altrincham	Altrincham 0138
	Mrs. S. J. McGrath	1, Hawthorn Road, Hale, Altrincham	Altrincham 0906
	Mrs. L. M. Quint	51, Greenhill Road, Timperley	Ringway 2607
	Mrs. I. Hall	353, Oldfield Road, Altrincham	Altrincham 0365
Ashton	Miss M. McClement-Williams*	District Nurse's Home, Smithy Lane, Mouldsworth, Chester	Manley 268
Ashton-on-Mersey	Miss B. Kitchen	13, Harcourt Road, Sale, Cheshire	Sale 5764
Astbury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton 3451
Audlem	Miss M. H. Hunter*	The Gables, Audlem, Crewe	Audlem 422
Barnston	Mrs. S. A. Cash*	Cherry Lodge, Beacon Lane, Heswall	Heswall 4037
Barnton	Mrs. S. M. Dorling*	5, Cross Street, Barnton, Northwich	Northwich 4080
Barrow	Miss G. Jones*	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
	Miss B. Walker	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
Bebington	Mrs. A. Holesak	216, Higher Bebington Road, Higher Bebington	Mountwood 1840
Bebington	Mrs. E. Kelly	19, Woodhey Court, Bebington, Wirral	Rock Ferry 1680
	Mrs. F. E. Harrison	14, Asterfield Avenue, Higher Bebington, Wirral	Rock Ferry 2441
	Miss M. G. Griffiths	10, Kempson Terrace, Bebington	Bromborough 2480
	Mr. E. Cochrane	215, Teehey Lane, Bebington	Mountwood 3516
Bickerton	Miss A. Jones*	20, Mill Grove, Bulkeley, Malpas	Cholmondeley 217
Bollington	Miss A. Barlow*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington 3179
	Mrs. M. Wood	Ingersley Vale Cottages, Bollington Macclesfield	Bollington 3204
Bramhall	Miss N. D. Entwistle*	81, Ack Lane, East Bramhall, Stockport	Bramhall 2377
	Mrs. C. M. Renshaw*	33, Lumb Lane, Bramhall	Bramhall 3536
Bredbury	Mrs. S. A. Christmas*	9, Merton Avenue, Bredbury Stockport	Woodley 3778
Bramhall	Miss A. Curry*	47, Swann Lane, Cheadle Hulme	Hulme Hall 1325
	Miss W. Watkins*	1, Barker Road, Bredbury	Woodley 3631
Bromborough	Miss F. Baughan	10, Greenville Crescent, Brom- borough, Wirral	Bromborough 1037
	Mrs. A. Thompson	41, Heygarth Road, Eastham, Wirral	Eastham 1647

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Buglawton	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton	3444
Bunbury	Mrs. J. A. O'Donnell*	8, Wyche Lane, Bunbury	Bunbury	266
Burton	Mrs. G. M. Town*	Pear Tree Cottage, Burton, Neston, Wirral	Burton	230
Castle, Northwich				
Cheadle	Mrs. W. Wareing*	6, Waldon Avenue, Cheadle, Cheshire	Gatley	3904
Cheadle	Mr. D. Hornby	126, Moor Lane, Woodford, Bramhall	Bramhall	1691
Cheadle Hulme	Miss C. Maher*	58, Ladybridge Road, Cheadle Hulme, Stockport	Hulme Hall	3261
Chelford	Mrs. E. Gornall*	9, Robin Lane, Chelford, Macclesfield,	Chelford Relief	216
Cholmondeley	Miss M. Brocklehurst*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmond- eley	268
Combermere	Miss W. A. George*	1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich)	286
Congleton	Mrs. R. Ward	24, The Westlands, Congleton	Congleton	2104
Crewe	Mrs. L. Crawford	11, Stanhope Avenue, Crewe	Crewe	55709
	Mrs. E. Heap	225, Wheelman Road, Crewe	Crewe	3163
	Mrs. E. M. Bailey	27, Franklyn Avenue, Crewe	Crewe	4621
	Miss B. Clinch	22a, Heathfield Avenue, Crewe	Crewe	4163
Daresbury	Miss G. Roberts*	Delph Cottage, Daresbury, Warrington	Moore	266
Davenham	Miss M. Buckley*	437, London Road, Davenham, Northwich	Northwich	3027
Delamere	Miss D. E. Joseph*	Wayside, Cotebrook, Tarporley	Little Budworth	391
Disley	Mrs. M. G. Rolls*	7, Bentside Road, Disley	Disley	2176
Doddington	Mrs. M. Hunter*	15, Gorsey Bank Cres., Wybunbury, Nantwich	Wybunbury	329
Dodleston	Mrs. M. E. Pilliner*	"Omega", Eaton Road, Eccleston	Eccleston	200
Dukinfield	Miss E. M. Ambler	212, Astley Street, Dukinfield	Ashton	1689
	Miss O. Morton	28, Kenyon Avenue, Dukinfield	Stalybridge	2562
Dunham Massey	Mrs. O. Chapman	35, Bucklow Avenue, Partington, Urnston, Manchester	Irlam	264
Ellesmere Port	Miss M. I. Raby	12, Thamesdale, Whitby, Wirral	E. Port	2542
	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port	2543
Farndon	Miss K. E. Hewitt*	14, Parker Drive, Farndon, Chester	Farndon	286
Frodsham	Mrs. M. Rhaney*	41, Doric Avenue, Frodsham	Frodsham	2386
	Mrs. C. L. Ormsby*	10, Kingsway, Frodsham	Frodsham	2109
Gawsworth	Mrs. A. Parsons*	Newlands, Woodhouse Lane, Gawsworth,	Macclesfield	2187
Goostrey	Miss G. Magee*	24, Booth Bed Lane, Goostrey, Crewe	Holmes Chapel	3244
Grappenhall	Mrs. D. I. Reeves	29, Kildonan Road, Grappenhall	Grappenhall	1076
Great Budworth	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach, Northwich	Comberbach	279
Hale Barns	Mrs. J. Knowles	14, Rowfield Drive, Newall Green, Manchester 23	Mercury	5102
Halton	Miss A. B. Porter*	47, Main Street, Halton, Runcorn	Runcorn	2597

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Handforth	Miss M. E. Bailey*	Oak Brow Cottage, Styal, Wilmslow, Cheshire	Wilmslow	2738
Hartford	Mrs. E. T. Dorman	Arderne House, Hodge Lane, Hartford, Northwich	Northwich	4513
	Mrs. P. E. Edwards*	28, Stones Manor Lane, Hartford	Northwich	4737
Haslington	Miss D. Williams*	33, Cartwright Road, Haslington,	Crewe	2693
Hazel Grove	Miss S. E. Ratcliffe*	62, Talbot Street, Hazel Grove	Stepping Hill	2292
	Miss W. M. Curtis*	62, Talbot Street, Hazel Grove	Stepping Hill	2292
Heald Green	Miss L. Broadhurst	22, Ravenoak Rd., Cheadle Hulme	Hulme Hall	2991
Helsby	Mrs. N. E. Stewart*	Thorns, Alvanley Road, Helsby Warrington	Helsby	143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall, Wirral	Heswall	710
Higher Bebington	Mrs. M. R. Heatley	203, Teehey Lane, Bebington, Wirral	Mountwood	1126
Higher Sutton	Miss M. M. Brown*	1, Robin Crescent, Sutton, Macclesfield	Sutton	363
High Lane	Mrs. J. Banks*	Hill View, Windlehurst Road, Hawk Green, Marple	Marple	385
Hollingworth	Mrs. M. A. Clarke	29, Heather Grove, Hollingworth		
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel, Crewe	H. Chapel	2226
Hoylake	Mrs. H. M. Kay	43, Cable Road, Hoylake	Hoylake	6195
	Miss E. Foster*	42, Cable Road, Hoylake	Hoylake	2925
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde	2488
	Miss H. Sutton	17, Henry Street, Hyde	Hyde	2488
Ince	Miss J. Potter*	Lynton House, Elton, Chester	Thornton-le- Mooors	289
Irby	Miss G. Wotton*	103, Lloyd Drive, Greasby, Wirral	Arrowebrook	1079
Irby South	Miss M. E. Herbert*	10, Greenway, Pensby, Heswall, Wirral	Irby	1779
Knutsford	Mrs. M. O. Stone*	Flat 22, Townfields, Thorneyholme, Knutsford	Knutsford	2287
	Miss M. E. Tierney*	Flat No. 1, Westfield Drive, Knutsford	Knutsford	3504
Little Leigh	Miss E. M. Fishwick*	14, Brakeley Lane, Little Leigh, Northwich	Comberbach	275
Little Sutton	Mrs. V. Sandbach	23, Hillcrest Road, Little Sutton, Wirral	Hooton	2110
Lostock Gralam	Miss M. J. Brannigan*	337, Manchester Road, Lostock Gralam, Northwich	Northwich	3046
Lymm	Mrs. W. F. Raad	26, Highfield Road, Lymm, Warrington	Lymm	116
	Mrs. A. B. James	61, Star Lane, Lymm, Warrington	Lymm	399
Macclesfield	Mrs. K. M. Ashmore	50, Saville St., Macclesfield	Macclesfield	3643
	Miss M. Otter	11, Northgate Av., Macclesfield,	Macclesfield	2169
	Mrs. M. Earlam	72, Earlsway, Weston, Macclesfield	Macclesfield	4887
Malpas	Mrs. D.M.T. Brooks*	15, The Oathills, Malpas	Malpas	396
Marpie	Miss C. Turner*	19, Greenbank Crescent, Marple, Stockport	Marple	361
Marple Bridge	Miss N. Greenleaf*	The Cottage, 66, Lower Fold, Marple Bridge, Stockport	Marple	166

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Marston	Miss J. B. Harper	20, Mere Road, Marston	Comberbach 425
Middlewich	Mrs. M. Taylor*	32, Sutton Lane, Middlewich	Middlewich 2350
	Miss B. Breeze*	11, Coronation Road, Middlewich	Middlewich 2549
Mobberley	Mrs. B. Horry*	18, Edenfield Av., Mobberley, Knutsford	Mobberley 3132
Mottram	Mrs. I. M. Huyton	25, Stockport Road, Mottram, Manchester	Mottram 2183
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	Winsford 2346
Nantwich	Miss E. Larnach*	} 20, Shrewbridge Crescent, Nantwich	Nantwich 65294
	Miss M. Mansfield*		Nantwich 65294
Neston	Miss D. Price*	Gorston, Sandy Lane, Little Neston	Neston 1185
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley, Warrington	Kingsley 265
Odd Rode	Miss H. Barry*	2, Drenfell Road, Scholar Green, Stoke-on-Trent	Kidsgrove 2929
Partington	Mrs. A. M. Dennison*	143, Wood Lane, Partington, Urmston, M/cr.	Irlam 3159
Poynton	Mrs. D. M. Shaw*	Hazeldene, Green Lane, Hr. Poynton	Poynton 2771
Poynton	Miss A. Cheetham*	82, Barnaby Road, Poynton, Stockport	Poynton 2137
Prestbury	Miss M. A. Wright*	7, Bollinside, Prestbury Macclesfield	Prestbury 89464
Rainow	Miss A. K. Keates*	Oakwood, Chapel Lane, Rainow, Macclesfield	Bollington 2184
Romiley	Miss E. Whaite*	9, Windsor Grove, Romiley	Marple 534
Runcorn	Mrs. A. A. Marsh	27, Perrin Avenue, Weston Point, Runcorn	Runcorn 3730
	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn 2849
	Mrs. J. E. Livesey	8, Lynden Grove, Runcorn	Runcorn 3260
Sale	Miss K. M. Steele	22, George's Road, Sale	Sale 7033
	Mrs. M. Dutton	255, Marsland Road, Sale	Pyramid 2019
	Mrs. R. Adams	79, Temple Road, Sale	Sale 8453
Sandbach	Mrs. I. Hoyle*	9, Offley Avenue, Sandbach	Sandbach 852
	Mrs. M. Wainwright	87, Platt Avenue, Sandbach	Sandbach 256
Sandiway	Miss S. Rhodes*	The Cottage, Glebe Road, Cuddington, Northwich	Sandiway 2252
Saughall	Miss D. Phillips*	9, Lodge Lane, Saughall, Chester	Saughall 200
Shavington	Mrs. E. N. Feather	21, Edwards Avenue, Shavington	Crewe 7234
Stalybridge	Mrs. E. H. Slater	295, Huddersfield Road, Stalybridge	Stalybridge 2448
	Mrs. A. R. Porter	27, Copley Avenue, Stalybridge	Stalybridge 3188
Stalybridge	Mr. E. B. Jones	21, Shakespeare Av., Millbrook, Stalybridge	Stalybridge 2315
	Miss D. H. Garner	572, Huddersfield Road, Heyheads, Stalybridge	Mossley 268
Stapeley	Miss E. Reilly*	22, Jackson Avenue, Nantwich	Nantwich 65570

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Stockton Heath	Miss H. M. Davies	68, Mill Lane, Stockton Heath, Warrington	St'k'on Heath 1489
	Mrs. O. Saunders	12, Worsley Road, Walton, Warrington	St'k'on Heath 896
Stretton	Miss G. Meredith*	3, Beverley Avenue, Appleton, Warrington	St'k'on Heath 573
Tarporley	Mrs. M. Stewart*	99, High Street, Tarporley	Tarporley 553
Tattenhall	Miss D. M. Simpson*	76, Tattenhall Road, Tattenhall	Tattenhall 387
Tilston	Mrs. I. A. Haynes*	Fern Lea, Tilston, Malpas	Tilston 249
Timperley	Miss M. B. McGrath	34, Keswick Road, Broomwood Estate, Timperley, Altrincham	Ringway 2912
	Miss J. Ferguson	10, Thorley Drive, Timperley, Altrincham	Ringway 2139
Upton	Mrs. E. C. Iball	73, Upton Drive, Upton-by-Chester	Chester 27897
Vicars Cross and Huntington	Mrs. R. I. Croome	40, Vicars Cross, Chester	Chester 35533
Weaverham	Miss S. M. Hitchinson*	52, Owley Wood Road, Weaverham Northwich	Weaverham 3272
	Mrs. E. L. L. Hampson*	Sunfield, Forest Road, Cuddington, Northwich.	Sandiway 2163
West Kirby	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby, Wirral	Hoylake 1203
Wheelock	Miss E. E. Gerrard*	647, Crewe Road, Wheelock, Sandbach	Sandbach 281
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Road, Willaston, Wirral	Willaston 2112
Willington Wilmslow	Mrs. M. S. Vickers*	9, Carter Avenue, Kelsall, Chester	Kelsall 286
	Miss E. B. Grindrod*	23, Kings Close, Wilmslow, Cheshire	Wilmslow 5525
	Miss M. K. Ward*	17, Bourne Street, Wilmslow Cheshire	Wilmslow 2615
	Miss A. M. Garry*	17, Bourne Street, Wilmslow, Cheshire	Wilmslow 2615
	Miss F. Marsden*	1, Prescott Road, Lacey Green Estate, Wilmslow, Cheshire	Wilmslow 5577
Winsford		92, Weaver Street, Winsford	Winsford 2228
	Miss P. M. Jones*	204, Ways Green, Winsford	Winsford 2548
	Miss I. A. Bremner*	204 Ways Green, Winsford	Winsford 2548
Wistaston	Mrs. H. M. Burgess	34, Elm Close, Wistaston	Crewe 2431
Witton	Mrs. I. Owen	Dinastre, Lime Av., Leftwich, Northwich	Northwich 3093
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich 65941
Northwich Area	Mr. R. D. Evans	4, Ellesmere Road, Leftwich, Northwich	Northwich 3310
Part-time and Relief Nurses			
	Mrs. M. J. Bennett,	Gorston, Sandy Lane, Little Sutton	Neston 1185
	Mrs. M. M. Brocklehurst*	Sidmere, Dale Brow, Prestbury Macclesfield	Prestbury 89811
	Mrs. M. L. Buckley*	7, Ascol Drive, Plumley, Knutsford	Northwich 2626
	Mrs. M. Chesters	23, Davenport Avenue, Crewe	Crewe 2130
	Mrs. E. Clarke	12, Brookside Avenue, Poynton, Stockport	Poynton 2506

Relief (contd.)

Mrs. B. Collier	2, Beech Avenue, Rosehill, Marple, Stockport		
Mrs. S. Davenport	49, Ermine Road, Newton Park, Chester		
Mrs. A. L. Davies	22, Chestnut Avenue, Shavington, Crewe	Crewe	7262
Mrs. D. Davison*	26, Cornelius Drive, Pensby Heswall, Wirral	Irby	1639
Mrs. V. M. Dutton*	Walkers Green Farm, Sproston, Middlewich	Middlewich	174
Mrs. D. M. Edwards	Yew Tree House, Liverpool Road, Neston, Wirral	Neston	2017
Mrs. J. Fell	118, Green Lane, Timperley	Ringway	2491
Mrs. D. Frame	6, Thorneyholme Drive, Knutsford	Knutsford	2558
Mrs. G. B. Gorick	12, Etherow Avenue, Romiley		
Mrs. E. L. Hartwell	28, Alexandra Grove, Runcorn	Runcorn	4628
Mrs. C. M. Hibbert*	Blencathra, Plant Lane, Elton, Sandbach	Sandbach	556
Mrs. A. M. Hutchinson	20, Barrymore Road, Owley Wood, Weaverham	Weaverham	3261
Mrs. H. M. Jackson	44, Cheadle Road, Cheadle Hulme	Hulme Hall	3423
Mrs. H. M. Johnson	21, Fir Tree Drive, Newton, Hyde	Hyde	3402
Mrs. F. Loveridge	5, Glen Rise, Timperley	Ringway	4452
Mrs. D. Macrae	42, Greenway, Greasby, Wirral	Arrowe Brook	1239
Mrs. E. A. Manion	90, Chester Road, Grappenhall, Warrington	Grappenhall	759
Mrs. V. Marshall	53, Cheadle Road, Cheadle Hulme	Hulme Hall	3752
Miss L. Mayoh*	Redwood, 16, Waterside Road, Marple	Marple	1016
Mrs. B. A. McHugh	443, Styal Road, Moss Nook, Wythenshaw		
Mrs. M. McNamee	231, Brooklands Road, Manchester, 23	Pyramid	2514
Mrs. K. M. Medley	28, Spring Avenue, Gee Cross, Hyde, Hurdsfield, Macclesfield	Macclesfield	5639
Mrs. P. V. Moores	11, Rainow Road, Higher		
Mrs. E. M. Morris	8, Meadow Cottages, Congleton		
Mrs. L. J. Nutt	7, Wrenbury Hall Drive, Wrenbury, Nantwich		
Mrs. F. M. Pierlejewska	41, Earle Road, Bramhall, Stockport	Bramhall	2955
Mrs. M. Pugh	26, Ferguson Avenue, Overpool, Ellesmere Port		
Mrs. J. A. Pownall,	65, Clarence Road, Grappenhall	Grappenhall	1105
Mrs. M. Reece,	26, George Street, Barnton		
Mrs. M. M. Rowling	Falcons, 15, Macclesfield Road, Wilmslow	Wilmslow	3315
Mrs. M. Rhodes	27, St. Wilfred's Drive, Grappenhall, Warrington	Grappenhall	1276
Mrs. R. T. Shinc	10, Newbold Crescent, Newton, West Kirby, Wirral		
Mrs. M. J. Sibbitt	18, Linda Drive, Hazel Grove	Stepping Hill	1185
Mrs. W. F. Stenning	1, Hillcrest Drive, Little Sutton		
Mrs. B. Sturdy	79, Townfield Lane, Bebington	Rock Ferry	5341
Mrs. S. V. Worrall	91, Carrington Lane, Ashton-on-Mersey, Sale	Sale	5328

COUNTY MIDWIVES

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>	
Alsager	Mrs. E. L. Pedley (33)	6, Audley Road, Alsager, Stoke-on-Trent	Alsager	583
Altrincham	Mrs. A. Warburton (40)	220 Manchester Road, Broadheath, Altrincham	Altrincham	1484
	Miss M. E. Cassidy (41)	26, Grove Lane, Timperley, Altrincham	Ringway	3495
	Mrs. M. Walker (41a)	16, Keswick Road, Broomwood Estate, Timperley	Ringway	2232
Bebington	Mrs. C. R. Green (5)	152, Town Lane, Bebington	Mountwood	1747
	Mrs. A. Harwood (6)	84, Thorburn Road, New Ferry	Rock Ferry	4621
	Mrs. D. Clarke (7)	922, New Chester Road, Bromborough	Eastham	2368
Bredbury	Miss B. A. Rimmer (4)	15, Stretton Close, Eastham	Eastham	2022
	Miss M. M. Leigh (57)	13, George Lane, Bredbury, Stockport	Woodley	2754
	Miss M. E. Morris (57a)	13, George Lane, Bredbury, Stockport	Woodley	2754
Cheadle	Mrs. A. Tompkins (49)	62, Wilmslow Road, Cheadle	Gatley	3551
	Mrs. S. Henry (48)	2, Alder Road, Cheadle	Gatley	5759
	Miss R. McMeekan (49a)	45, Neal Avenue, Heald Green	Mercury	1138
	Mrs. W. G. Hudson (48a)	131, Queensway, Heald Green	Mercury	4912
Congleton	Miss D. H. Wright (47)	Ewanrigg, Giantswood Lane, Congleton	Congleton	3240
Crewe	Miss E. A. Bimson (27)	20, Gatefield St., Crewe	Crewe	2239
	Miss D. B. Sowden (29)	199, Edleston Road, Crewe	Crewe	3701
	Mrs. E. Weston (30)	19, Nelson Street, Crewe	Crewe	3110
	Miss P. M. Toomey (31a)	22a, Heathfield Avenue, Crewe	Crewe	4163
Dukinfield	Miss L. W. O'Hara (62)	Princess Villa, Princess Street, Dukinfield	Ashton	4874
	Miss L. Bradley (63)	24, Morar Road, Dukinfield	Ashton	4261
Ellesmere Port	Miss E. Bowyer (9)	71, Glenwood Road., Little Sutton, Wirral	Hooton	2689
	Mrs. F. E. Walker (9a)	80, Childer Crescent, Little Sutton	Hooton	3227
	Mrs. M. H. Bendell (10)	Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port	Ellesmere Port	1982
	Mrs. V.E. Corson (11)	40, Wilkinson Street, Ellesmere Port	Ellesmere Port	3146
	Mrs. E. Evans (12)	85, Grace Road, Ellesmere Port	Ellesmere Port	1188
	Miss N. Evans (14)	2, Woodechurch Lane, Ellesmere Port	Ellesmere Port	2351
	Miss I. N. Willis (13)	210, Sutton Way, Ellesmere Port	Ellesmere Port	2964
Grappenhall	Miss E. Tinker (21)	3, Georges Crescent, Grappenhall Warrington	Grappenhall	275
Hazel Grove	Miss F. W. Hampson (50)	335, London Road, Hazel Grove, Stockport	Stepping Hill	3131
Hollingworth	Mrs. K. O'Grady (66)	6, Claylands Close, Hollingworth Manchester	Mottram	3313

COUNTY MIDWIVES (contd.)

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Hoylake and West Kirby	Miss Mona Williams (1)	11, Trinity Road, Hoylake, Wirral	Hoylake 3084
	Mrs. E. Jemmett (2)	58, Gresford Avenue, West Kirby, Wirral	Hoylake 1552
Hyde	Mrs. E. Hudson (64)	72, Pennine Road, Woodley	Woodley 4033
	Miss M. Coote (66a)	3b, Hallbottom Street, Hyde	Hyde 1161
	Mrs. M. Williams (65)	10, Paddock Road, Cheetham Fold Estate, Hyde	Hyde 3441
Lymm	Miss J. Pike (34)	21, The Crescent, Lymm, Warrington	Lymm 725
Macclesfield	Mrs. B. J. Whittaker (52)	27, Cottage Street, Macclesfield	Macclesfield 3766
	Miss F. A. Scrivens (53)	Flat 4, Sunny Bank, London Rd., Macclesfield	Macclesfield 3853
	Mrs. A. Watson (54)	18, Surrey Road, Macclesfield	Macclesfield 4455
	Miss E. Fairclough (55)	19, Nicholson Avenue, Macclesfield	Macclesfield 3322
	Miss Y. Plant (56)	79, Oxford Road, Macclesfield	Macclesfield 6533
	Miss J. M. Barber (56a)	17, Arlington Drive, Macclesfield	Macclesfield 5929
Neston	Miss E. Lythgoe (8)	4, Waterford Drive, Little Neston, Wirral	Neston 1626
Northwich	Mrs. W. A. Placc (24)	22, Fairfield Road, Leftwich, Northwich	Northwich 3050
Partington	Miss H. Lawrie (43)	37, Bucklow Avenue, Partington, Urmston, Manchester	Irlam 2274
Runcorn	Miss E. M. Grice (17a)	40, Norman Road, Runcorn	Runcorn 3602
	Miss A. Wright (18)	10, Stanley Villas, Runcorn	Runcorn 2556
	Miss P. Noon (19)	73, Oxford Road, Runcorn	Runcorn 2881
	Mrs. P. Farrell (17)	134, Heath Road South, Weston, Runcorn	Runcorn 3707
Sale	Mrs. M. McGrath (36)	2, Reading Drive, Sale	Sale 2445
	Mrs. M. Butterworth (38)	45, Alexandra Road, Sale	Sale 2571
Sandbach	Miss M. Beatty (45)	5, Coronation Crescent, Sandbach	Sandbach 731
Stalybridge	Miss H. Sowerbutts (58)	572, Huddersfield Road, Heyheads, Stalybridge	Mossley 268
	Miss N. Robinson (59)	6, Acres Lane, Stalybridge	Stalybridge 2821
	Mrs. F. Dent (60)	16, Ash Grove, Stalybridge	Stalybridge 2281
Stockton Heath	Mrs. J. M. Arthur (22)	15, Southern Street, Stockton Heath	Stockton Heath 74
Upton and Vicar's Cross	Miss C. Brierley (15)	Greystones, Quarry Lane Christleton, Chester	Chester 35942
	Miss I. B. Jones (16)	18, Bachc Avenue, Liverpool Road, Chester	Chester 21097
Weaverham	Miss J. Wolahan (23)	49, Wallerscote Road, Weaverham, Northwich	Weaverham 2116

CEREBRAL PALSY TEAM

<i>Physiotherapist</i>	-	-	-	Joyce Urmson
<i>Occupational Therapist</i>	-			Margaret Slater

CHILD GUIDANCE SERVICE

<i>Psychologists</i>	.....	.....	.....	T. W. Crabtree
				Eva Foote
				Norma Grinnell
				J. Walker
<i>Psychological Social Workers</i>	.....			Ellen Howitt
				Phyllis Redfarn

PERIPATETIC TEACHERS OF THE DEAF

J. Buckingham	Pauline Carr
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SPEECH THERAPISTS

Gillian Barlow	Kathleen Jones (part-time)
Rayleen Eaton	Melba Loynes (part-time)
Margaret Johnson	

DOMESTIC HELP SUPERVISORS

<i>Division</i>	<i>Supervisor</i>
Crewe and Nantwich	Joan Clarke
Deeside and Bebington	Elsie Shepherd
Hyde, Stalybridge & Dukinfield	Frances Dobson
Mid-Cheshire	Freda Moore
N.E. Cheshire	Margaret Greenup
Macclesfield and S.E. Cheshire	Joan Cheetham
S.W. Cheshire	Dorothy Fellowes
Altrincham, Sale and Lymm	Nora Mawby
Runcorn	Dorothy Shepherd
Cheadle and Wilmslow	Margaret Shone

MENTAL WELFARE OFFICERS

District	Area	Office Address	Senior Mental Welfare Officer	Mental Welfare Officers	
No. 1 Wirral	BEBINGTON M.B. HOYLAKES U.D. WIRRAL U.D. NESTON U.D.	218, Bebington Road, Bebington Telephone:—Rock Ferry 1155	Mr. E. M. Harbrow, The Allports, Allport Road, Bromborough. Telephone:—Bromborough 1620	Mrs. C. Ledsome, 15, Brimstage Avenue, Higher Bebington. Telephone:—Mountwood 1991	Mr. E. S. Hughes, 6, Newton Drive, Newton, West Kirby. Telephone:—Hoylake 7830
No. 2 West Cheshire	ELLESMEYER PORT M.B. CHESTER R.D. TARVIN R.D.	55, Hoole Road, Chester Telephone:—Chester 22299	Mr. F. H. Mills, Northwood, Millfields, Nantwich Telephone:—Nantwich 65545	Mr. H. Q. Dowland, 3, Upton Drive, The Bachs, Chester Telephone:—Chester 20091	Mrs. C. E. Murphy, 15, Newry Park, Chester Telephone:—Chester 20090
No. 3 Runcorn and Lymm	RUNCORN U.D. RUNCORN R.D. LYMM U.D.	District Offices, Waterloo Road, Runcorn Telephone:—Runcorn 2608	Mr. H. Holden, 79, Victoria Road, Runcorn Telephone:—Runcorn 3747	Mr. A. Braddock, 16, Riley Drive, Runcorn Telephone:—Runcorn 4127	
No. 4 Mid-Cheshire	NORTHWICH U.D. WINSFORD U.D. MIDDLEWICH U.D. NORTHWICH R.D.	Brunner Guildhall, High Street, Winsford Telephone:—Winsford 3346	Mr. E. Platt, Kensyd, Delamere Street, Winsford Telephone:—Winsford 3352	Mrs. I. Leslie, 2, Vale Road, Hartford, Northwich. Telephone:—Northwich 5137	
No. 5 Crewe and Nantwich	CREWE M.B. NANTWICH U.D. NANTWICH R.D. ALSAGER U.D. SANDBACH U.D.	201, Edleston Road, Crewe Telephone:—Crewe 2478	Mr. R. E. Broach, 180, Crewe Road, Alsager. Telephone:—Alsager 174	Mr. G. E. Lanceley, 14, Lauriston Avenue, Crewe Telephone:—Crewe 55678	Miss A. Unsworth, Brookbank, Newcastle Road, Nantwich. Telephone:—Crewe 7790
No. 6 Altrincham, Sale and Knutsford	ALTRINCHAM M.B. SALE M.B. BOWDON U.D. HALE U.D. KNUTSFORD U.D. BUCKLOW R.D.	1, Claremont Road, Sale Telephone:—Sale 2305	Mr. W. H. Driver, 32, Sefton Road, Sale. Telephone:—Sale 3408	Mr. R. E. Hopkinson, 4, Hargreaves Road, Timperley. Telephone:—Ringway 4775	Miss R. Barnett, 7, Balmoral Drive, Timperley Telephone:—Sale 4440
No. 7 Macclesfield and Congleton	MACCLESFIELD M.B. MACCLESFIELD R.D. CONGLETON M.B. CONGLETON R.D. BOLLINGTON U.D.	Oak House, Brunswick Street, Macclesfield Telephone:—Macclesfield 6030 Macclesfield 4908	Mr. L. Meadwell, Craigmore, Brereton Heath Lane, Somerset, Congleton Telephone:—Holmes Chapel, 3202	Mr. J. I. Wallace, 1, Newlands Road, Broken Cross, Macclesfield. Telephone:—Macclesfield 5756	Mrs. R. Hilderley, The Withins Farm, Lower Withington, Macclesfield Telephone:—Lower Withington 358
No. 8 North-East Cheshire	CHEADLE & GATLEY U.D. HAZEL GROVE & BRAMHALL U.D. MARPLE U.D. WILMSLOW M.B. ALDERLEY EDGE U.D. DISLEY R.D.	District Offices, Shaw Heath, Stockport Telephone:—Stockport 4422	Mr. R. Ashton, 23, Fairfield Avenue, Cheadle Hulme Telephone:—Hulme Hall 3672	Mr. E. W. Harrison, 6, Overton Crescent, Hazel Grove, Telephone:—Stepping Hill 1806	Mrs. I. Houghton, 9, Stalmine Avenue, Heald Green Cheadle. Telephone:—Mercury, 3481
No. 9 Stalybridge Hyde and Dukinfield	STALYBRIDGE M.B. HYDE M.B. DUKINFIELD M.B. LONGDENDALE U.D. BREDBURY & ROMILEY U.D. TINTWISTLE R.D.	1A, Melbourne Street, Stalybridge Telephone:—Stalybridge 2274	Mr. J. Thompson, 28, Pickford Lane, Dukinfield. Telephone:—Ashton-u-Lyne 1128	Mrs. M. Coombes, Laureldene, Mottram Road, Stalybridge Telephone:—Mottram 2134	

DAY NURSERIES

Altrincham M.B.	1, Gaskell Road (Tel. Altrincham 3621). <i>Matron</i> —Mrs. W. Helliwell
Bebington M.B.	The Bradmoor, Bromborough (Tel. Brom- <i>Matron</i> —Mrs. F. G. Davies borough 1381)
Congleton M.B.	Bradshaw House, Lawton Street (Tel. Congleton <i>Matron</i> —Mrs. H. E. Knight 3282).
Dukinfield M.B.	Dewsnap Lane (Tel. Ashton-u-Lyne 3136). <i>Matron</i> —Mrs. C. J. Bell
Ellesmere Port M.B.	Stanney Lane, Ellesmere Port (Tel.: <i>Matron</i> —Mrs. R. F. Chroston E. Port 1500)
Macclesfield M.B.	South Park, Poplar Road (Tel. Macclesfield 3751). <i>Matron</i> —Mrs. M. Mallinson 1, Glegg Street (Tel. Macclesfield 2813). <i>Matron</i> —Mrs. E. Roberts Nicholson Avenue, Hurdsfield (Tel. Maccles- <i>Matron</i> —Mrs. L. Potts field 4225)
Sale M.B.	Harley Road (Tel. Sale 4627). <i>Matron</i> —Mrs. C. M. de Patoul
Bollington U.D.	Buntings Field, Wellington Road (Tel. Bolling- <i>Matron</i> —Mrs. M. Trier ton 3294).
Bredbury & Romiley U.D.	Highfield Park Road, Bredbury (Tel. Woodley <i>Matron</i> —Mrs. E. Ogden 2817).
Hazel Grove & Bramhall U.D.	Queen's Road, Hazel Grove (Tel. Stepping Hill <i>Matron</i> —Miss P. Höhne 2048)
Runcorn U.D.	Okell Street (Tel. Runcorn 2461). <i>Matron</i> —Mrs. M. Jones

WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

Warden and Manager—L. T. Burton

MOTHERS' AND BABIES' HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

Matron—Miss R. A. Barton

JUNIOR TRAINING CENTRES

Navigation Road, Altrincham.

(Tel. Altrincham 4977).

Supervisor—Mrs. D. M. Platt

Methodist Sunday School, Stockport Road, Gee Cross, Hyde (Tel. Hyde 1408)

Supervisor—Mrs. J. Worfolk

33 Great King Street, Macclesfield (Tel. Macclesfield 3407)

Supervisor—Mrs. M. Cheadle

Methodist Sunday School, Hospital Street, Nantwich (Tel. Nantwich 65378)

Supervisor—Mrs. M. Hayes

Calveley Avenue, Mill Park Drive, Eastham

(Tel. Eastham 2270)

Supervisor—Miss I. J. Young

ADULT TRAINING CENTRE

Coronation Road, Ellesmere Port.

(Tel. Ellesmere Port 1512)

Superintendent—J. H. Heath

CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1960

Section I.-Area and Population

Area

The acreage of the County at the end of 1960 was 621,825 acres.

Population

The population of the Administrative County, as constituted 1/4/60 and enumerated at the Census of 1951, was 815,884. The estimate of the Registrar-General for mid-1960 was 899,580.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/60 was £12,077,170. A penny rate over the whole County for 1960-61 represented the sum of £48,951 (estimated.)

Health Service Premises

The undermentioned major works were commenced or completed in the above year, and many minor adaptations and improvements were carried out at various buildings. The normal programme of maintenance work has continued. A few additional garages were erected at Nurses' houses.

Buildings completed during the year:

Sandbach Clinic Centre.

Buildings in course of erection during the year:

Altrincham Ambulance Station.

Cheadle Ambulance Station.

Ellesmere Port Clinic Centre, Day Nursery and Adult Training Centre.

Eastham Junior Training Centre.

Heswall Ambulance Station.

Section II.-Births and Deaths

The figures are for the Administrative County, 1960, unless otherwise stated.

Live Births:—

	Total.	Male	Female
Legitimate .. .	14859	7577	7282
Illegitimate .. .	523	257	266
	<hr/> 15382	<hr/> 7834	<hr/> 7548

Birth Rate per 1,000 of the estimated resident population, 17.1.

Illegitimate Live Births were 3.4% of the total live births.

	Total.	Male	Female
Stillbirths .. .	303	161	142

Stillbirths Rate per 1,000 total (live and still) births, 19.3

Total—Live and Still Births, 15,685.

	Total.	Male	Female
Deaths .. .	10428	5197	5231

Death Rate per 1,000 of population, 11.6.

Infantile Mortality:—

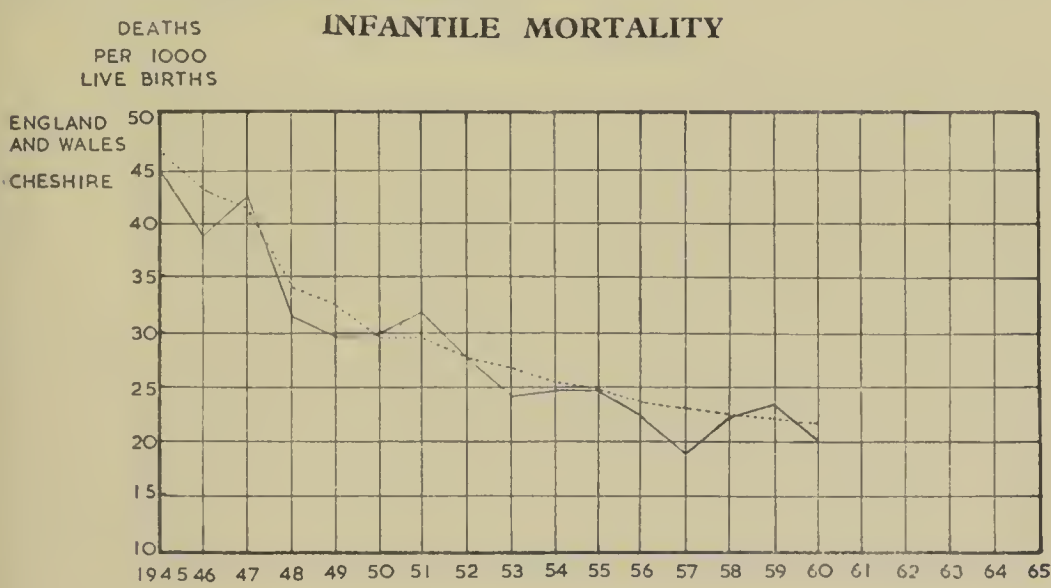
	Under 1 year	Under 4 weeks	Under 1 week
Deaths of Infants in the Administrative County during 1960 .. .	309	223	193
Legitimate .. .	293	210	181
Illegitimate .. .	16	13	12
All Infants per 1,000 live births .. .	20.1	14.5	12.5
Legitimate Infants per 1,000 legitimate live births .. .	19.7	14.1	12.2
Illegitimate Infants per 1,000 illegit- imate live births .. .	30.6	24.9	22.9

Of the 309 deaths of infants under one year of age, 52 deaths occurred at home and 257 deaths in hospitals or nursing homes. The

causes of death, using the Registrar General's Classification, were as follows:—

Tuberculosis (non-pulmonary)	1
Other infective and parasitic diseases	2
Vascular lesions of the nervous system	1
Pneumonia	38
Bronchitis	3
Other respiratory diseases	1
Gastritis, Enteritis, Diarrhoea	7
Congenital Malformations	56
Other diseases	189
Accidents	11

The figures for deaths under one year in recent years are shown in the following diagram :—



Perinatal Deaths

Perinatal deaths are the total of stillbirths and deaths of infants under one week, and were made up as follows in 1960:—

Stillbirths	303
Deaths under one week	193
<i>Total</i>	<u>496</u>

The Perinatal Mortality Rate (stillbirths and deaths under one week combined per 1,000 total live and still births) for 1960 was 31.6.

Deaths from Puerperal Causes

	Deaths.	Rate per 1,000 total (live and still) births.
Pregnancy, Childbirth, Abortion	6	0.38

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Comparison of various rates with previous years

		1960	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948
Births	15382	Birth Rate (per 1,000 population)	17.1	16.0	15.9	15.6	15.0	14.1	14.3	14.6	14.3	14.5	14.8	15.6	16.8
Illegitimate Births	523	Illegitimate Births as percentage of total Live Births	3.4	3.2	3.2	3.2	3.6	3.3	3.7	3.8	3.7	3.7	3.9	4.1	4.8
Stillbirths	303	Stillbirth Rate (per 1,000 Live and Still Births)	19.3	21.6	22.5	22.8	24.1	22.4	26.0	22.1	23.4	23.0	24.9	25.3	24.9
Deaths	10428	Death Rate (per 1,000 population)	11.6	12.0	12.1	11.9	12.3	12.2	11.9	11.3	11.6	13.1	11.6	11.8	11.0
Deaths of Infants under one year	309	Infantile Mortality Rate	20.1	23.4	22.4	18.8	22.5	24.7	24.9	24.1	28.0	32.0	30.0	29.8	31.4
Deaths of Infants under four weeks	223	Neo-natal mortality Rate	14.5	17.3	16.1	12.5	15.8	16.7	17.5	16.0	18.0	21.0	19.2	not available	
Deaths of Infants under one week	193	Deaths of Infants under 1 week to 1,000 live births	12.5	14.8	not available										
Perinatal Deaths (Stillbirths & deaths under one week)	496	Perinatal Death Rate	31.6	36.1	not available										
Maternal Deaths	6	Maternal Mortality rate	0.38	0.28	0.14	0.51	0.61	0.66	0.4	0.5	1.1	1.1	0.88	1.63	1.16

Principal Causes of Death

Causes of Death 1951-1960 (all ages)

The table below shows the trends in the causation of death at all ages since 1951.

		1960	1959	1958	1957	1956	1955	1954	1953	1952	1951
T.B.—Respiratory		37	54	59	72	98	75	96	93	124	149
—Other		7	3	7	11	8	15	17	11	22	32
Diphtheria		—	—	—	—	—	—	—	—	—	—
Whooping Cough		1	1	—	3	3	3	—	3	3	6
Measles		—	2	1	1	1	2	4	5	1	6
Malig. Stom.	M	172	177	168	166	151	151	169	180	167	154
	F	145	144	133	129	131	137	114	138	122	147
Lung Bronc.	M	300	311	337	310	288	274	268	208	179	197
	F	60	52	49	49	52	44	35	52	36	25
Breast		167	167	160	149	166	167	154	156	172	161
Uterus		91	67	80	77	82	78	78	86	85	66
Others	M	442	462	457	465	442	442	425	404	414	466
	F	476	445	433	407	410	410	399	378	378	369
Leukaemia		40	44	42	28	43	39	47	43	32	38
Diabetes		65	57	67	43	56	63	60	55	63	69
Vasc. Nervous Syst.	M	639	711	658	648	669	701	671	588	628	614
	F	969	995	1071	1017	1,039	913	938	859	855	892
Coronary	M	1233	1075	1043	964	1,053	918	904	816	789	793
	F	786	641	656	596	548	497	430	415	441	427
Influenza		27	90	45	134	55	75	26	100	34	367
Pneumonia		466	440	398	385	340	334	296	261	291	462
Bronchitis		498	493	559	459	534	487	505	490	457	612
Peptic Ulcer		81	91	74	88	92	116	101	91	101	77
Nephritis		74	77	77	90	105	104	124	117	137	134
Motor Accidents		140	119	124	108	101	105	99	90	91	78
Other Accidents		172	191	200	215	205	183	202	178	159	170
Suicide	M	45	52	58	58	64	41	54	53	59	48
	F	42	37	48	51	41	40	51	26	29	38

Death Rates

The death rates for the main diseases during 1960 were as follows

Disease.	No. of Deaths.	Rate per million population..
Heart Disease	3467	3854
Malignant Diseases	1728	1921
Vascular lesions of nervous system	1608	1788
Bronchitis	498	554
Pneumonia	466	518
Ulcer of Stomach and Duodenum	81	90
Influenza	27	30
Nephritis	74	82
Tuberculosis (all forms)	44	49
Pulmonary	37	41
Non-Pulmonary	7	8
Diabetes	65	72

Zymotic Deaths

The deaths from the chief zymotic diseases were as follows :

Disease.	No. of Deaths.	Rate per million population.
Diphtheria	—	—
Whooping Cough	1	1.1
Measles	—	—
Gastritis, Diarrhoea and Enteritis	49	54.5

The zymotic Death Rate was 0.06 per 1,000 population.

DEATHS FROM CANCER OF LUNG AND BRONCHUS AND BRONCHITIS

	<i>Cancer</i>	<i>Bronchitis</i>
Within 10 miles of Manchester		
Altrincham M.B.	22	22
Bowdon U.D.	1	3
Bredbury and Romiley U.D.	11	11
Cheadle and Gatley U.D.	8	16
Dukinfield M.B.	10	16
Hale U.D.	9	8
Hazel Grove and Bramhall U.D.	11	14
Hyde M.B.	17	19
Longdendale U.D.	2	2
Marple U.D.	9	10
Sale M.B.	18	18
Stalybridge M.B.	8	20
Population, 291,870	126	159
Death rate per 1,000 population	0.43	0.54
Within 10 miles of Liverpool		
Bebington M.B.	20	30
Hoylake U.D.	10	17
Wirral U.D.	8	9
Population, 103,730	38	56
Death rate per 1,000 population	0.37	0.54
Industrial Areas more than 10 miles from Liverpool or Manchester		
Bollington U.D.	1	1
Congleton M.B.	6	16
Crewe M.B.	17	33
Ellesmere Port M.B.	18	19
Macclesfield M.B.	11	19
Middlewich U.D.	2	2
Northwich U.D.	9	13
Runcorn U.D.	16	17
Winsford U.D.	6	2
Population, 215,130	86	122
Death rate per 1,000 population	0.40	0.57

Rest of County			Cancer	Bronchitis
Alderley Edge U.D.	-----	-----	3	7
Alsager U.D.	-----	-----	3	4
Knutsford U.D.	-----	-----	3	11
Lymm U.D.	-----	-----	5	1
Nantwich U.D.	-----	-----	5	9
Neston U.D.	-----	-----	3	7
Sandbach U.D.	-----	-----	2	9
Wilmslow U.D.	-----	-----	10	5
Bucklow R.D.	-----	-----	7	4
Chester R.D.	-----	-----	9	20
Congleton R.D.	-----	-----	4	6
Disley R.D.	-----	-----	2	3
Macclesfield R.D.	-----	-----	7	9
Nantwich R.D.	-----	-----	11	20
Northwich R.D.	-----	-----	17	19
Runcorn R.D.	-----	-----	18	18
Tarvin R.D.	-----	-----	1	8
Tintwistle R.D.	-----	-----	-----	1
Population, 287,680			110	161
Death rate per 1,000 population			0.38	0.56

Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough and tetanus. Immunisation is, in practice, meant for children, with particular attention to those under 5, but vaccination may on occasion be sought by persons of any age.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics. The table at the end of this section sets out the details.

Smallpox Vaccination

During the year 1960, the number of persons vaccinated was as follows:—

	<i>Vaccinated</i>	<i>Re-Vaccinated</i>
Under 1 year	6254	36
Age 1 year	1203	7
Age 2—4 years	455	29
Age 5—14	452	198
Age 15 years and over	537	1314
	<hr/> 8901	<hr/> 1584

Diphtheria Immunisation

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria was as follows:—

Children under 1 year	8367
Children 1—4 years	3891
Children 5—14 years	1556
	<hr/>
Total	13814

Total number of children who were
given a secondary or reinforcing
injection

14447

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1960, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

<i>Last complete course of injections (whether primary or booster)</i>			
<i>Born in Year</i>	<i>1956—60</i>	<i>1955 or earlier</i>	
1960	5067	—	
1956—59	37484	—	
1951—55	30491	26323	
1946—50	16634	48360	
Totals	1946—60	89676	74683

Whooping Cough Immunisation

During the year 1960 the number of children who completed a full course of immunisation against whooping cough was as follows:—

Under 1 year	8066
Age 1—4 years	3944
Age 5—14 years	1398
Total	13408

Mid-year Child Population

The estimated mid-year child population for the year 1960 was as follows:—

Under 1 year	14300
1—4 years	54200
5—14 years	135900
Total under 15 years	204400

Poliomyelitis Vaccination

The scheme was further extended in March, 1956 to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

When the vaccination of children against poliomyelitis started in 1956 only children in the 1947-54 age group were registered for vaccination, but in May, 1957, the registration of children born in 1955 and 1956 was permitted. Further extensions of the scheme have been notified from time to time and at the end of 1959, all born since 1914 were approved for vaccination.

Statistics relating to the scheme in 1960 were as follows:—

	Born 1943- 1960	Others	Total
(a) No. of persons awaiting vaccination at 31/12/60	380	351	631
(b) No. of persons who had received 1 injection up to 31/12/60 (but not 2nd or 3rd)	2928	6773	9701
(c) No. of persons vaccinated with 2 injections during 1960	16036	27854	43890
(d) No. of persons who have received 2 injections since inception of scheme	178999	79925	258924
(e) No. of persons who received their 3rd injection during 1960	35447	44371	79818
(f) No. of persons who have received 3 injections since inception of scheme	163244	57052	220296

VACCINATION AND IMMUNISATION, 1960

The following table shows the number of children in each Division who completed a course of immunisation or vaccination during 1960 at clinics arranged by Divisional Medical Officer or by private doctors at other places.

Division	Diphtheria		Whooping Cough		Whooping Cough and Diphtheria		Whooping Cough Diphtheria and Tetanus		Smallpox	
	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor
Altrincham	10	39	2	30	1	4	488	664	349	884
Bebington	54	41	4	9	5	45	275	436	194	440
Cheadle and Wilmslow	2,120	144	—	18	—	19	359	862	—	840
Crewe	12	27	—	—	—	256	—	494	—	420
Deeside	93	205	3	38	24	300	123	586	159	779
Hyde	—	1	1	—	—	—	275	224	—	415
Macclesfield	2	2	—	1	—	186	248	148	—	260
Mid-Cheshire	—	304	—	16	—	362	—	838	—	597
Nantwich	71	162	1	30	9	221	43	572	—	480
N.E. Cheshire	66	16	—	8	—	15	255	667	—	621
Runcorn	2,703	11	—	—	—	15	253	1,029	48	475
Slae and Lymm	25	12	1	5	—	37	270	515	328	363
S.E. Cheshire	24	30	10	13	40	72	406	600	202	518
S.W. Cheshire	1,707	437	—	4	15	43	769	738	492	638
Stalybridge and Dukinfield	52	1	1	1	1	—	248	145	225	141
TOTALS	6,939	1,432	23	173	95	1,575	4,012	8,518	1,997	7,871

Section IV.—Ambulance Service

The County Council is charged with a duty, under Section 27 of the National Health Service Act, 1946, to provide a comprehensive ambulance service throughout the county, free of charge to persons carried, the duty includes the provision of an emergency service for road accidents and the transport of persons who are unfit to travel by public transport. The service is one which has been devolved for organisation and management within the approved estimates to Divisional Health Committees throughout the county.

During 1960 the centralisation of the ambulance service began together with the use of radio control which was introduced at the end of 1959. By December 1960, the ambulance service managed by the Deeside, Bebington, South West Cheshire, Runcorn and Mid-Cheshire Divisional Health Committees had been placed under central operational and administrative control. Radio equipment has also been installed in the ambulances operated by the Nantwich, Crewe, Macclesfield and South-East Cheshire Divisional Health Committees together with those operated by the Altrincham, Sale and Lymm Joint Ambulance Sub-Committee. The use of radio communications has proved a success and the process of centralisation will continue.

During the summer an inter-station ambulance competition was held at Bebington at which the Chairman of the County Council presented his silver cup to the winning team; the event engendered an excellent spirit of competition amongst the staff and a similar competition will now be held annually. During the year a new ambulance station was completed in Cheadle and it was opened officially in October by the Lord Lieutenant of the County, Viscount Leverhulme, T.D., J.P.

The introduction of larger sitting case vehicles has proved successful and their value is shown in a considerable reduction in the miles travelled per patient. The following new vehicles were purchased during the year:—

<i>Reg. No.</i>	<i>Make</i>	<i>Year</i>	<i>Delivered to</i>	<i>Date</i>
211 MMA	Bedford	1960	Altrincham	Aug. 1960
212 MMA	"	"	"	"
213 MMA	"	"	South East	Oct., 1960
314 LTU	"	"	Altrincham	Aug., 1960
315 LTU	"	"	Mid-Cheshire	"
841 MMA	Morris	"	Nantwich	"
842 MMA	"	"	South East	"
843 MMA	"	"	Cheadle	"
844 MMA	"	"	Crewe	"
845 MMA	"	"	Hyde	"
846 MMA	"	"	Runcorn	"
847 MMA	"	"	South East	Sept., 1960
848 MMA	"	"	South West	"
849 MMA	"	"	South West	"

The arrangements by which the County Borough of Chester, Stockport and Warrington and the Counties of Shropshire and Derbyshire provided an ambulance service in particular areas, or for special purposes, were continued, so was the arrangement whereby the County Borough of Liverpool and the Coutny of Lancashire undertook to convey smallpox patients or others needing special disinfection. On the other hand, Cheshire provide the night-time service for the Glossop area of Derbyshire. Re-organisation and the use of radio has decreased the use of the Chester County Borough Service.

The whole-time staff during the year was as follows:—

Supervisory Staff	.....	.....	24	
Control Staff	.....	.....	8	
Mechanics	.....	.....	6	
Driver/Attendants	.....	.....	173	(incl. 10 part-time)
Others	.....	.....	6	(Cleaners, Clerk/Telephonists, etc.)

The following schedule shows the work done by the service for the financial year 1960—61:—

ITEM (1)	Directly Provided Service (2)			Total	Supplementary Service (including Hospital Car Service). (3)			Total	Transport by Rail (4)
	Amb.	S.C.A.	S.C.C.		Amb.	S.C.A.	S.C.C.		
1. No. of persons carried (excluding relatives, escorts and friends)									
(a) Section 27 patients									
(i) Accident or Emergency	11,108	4,467	—	15,575	—	—	—	—	—
(ii) Others	95,874	146,566	—	242,440	—	—	6,166	6,166	101
(iii) Total of (i) and (ii)	106,982	151,033	—	258,015	—	—	6,166	6,166	101
(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.	1,075	10,052	—	11,127	—	—	—	—	—
(c) Grand total i.e. (a) (iii) and (b)	108,057	161,085	—	269,142	—	—	6,166	6,166	101
2. No. of journeys by vehicles									
(a) Patient carrying journeys	32,489	39,758	—	72,247	—	—	3,277	3,277	101
(b) Abortive and service journeys	407	460	—	867	—	—	—	—	—
(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.	49	250	—	299	—	—	—	—	—
(d) Total of (a) (b) and (c)	32,945	40,468	—	73,413	—	—	3,277	3,277	101
3. Total mileage (incl. that in respect of 1 (b))	739,838	1,001,418	—	1,741,256	—	—	82,120	82,120	9,786

Population of service area 855,960
 Acreage of service area 596,667

No. of ambulance stations 19
 No. of Ambulances 43
 No. of Dual Purpose 48

Section V.-Prevention of Illness, Care and After-care

General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify and in this connexion, tuberculosis has been so specified.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

Tuberculosis

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as garden shelters and the supply of smaller items such as sputum flasks, form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council. No additional trainees were admitted in 1960 for industrial rehabilitation. There are at present 21 colonists living in the hostels, of whom 4 are married, and 3 married colonists living with their families in cottages on the estate.

During 1960, 5 colonists and trainees were inspected and treated by County Dental Surgeons.

The following tables will enable a comparison to be made between 1960 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

Tuberculosis Statistics

	1960	1959	1958
New cases notified (primary)			
Pulmonary	210	230	308
New cases notified (primary)			
Non-pulmonary	34	26	43
	<hr/>	<hr/>	<hr/>
Total	244	256	351
	<hr/>	<hr/>	<hr/>
No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st	5245	5496	5493
No. of Deaths from all forms of Tuberculosis	44	57	66
Death-rate from all forms of Tuberculosis per 1,000 of the population	0.05	0.06	0.08

Table relating to Tuberculosis in children under 16 :

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non- Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non- Pulmonary
1951	30	63	6.9	55.3
1952	56	62	12.5	52.1
1953	55	45	12.7	55.6
1954	46	54	12.4	62.1
1955	45	38	10.4	51.3
1956	40	30	10.2	44.1
1957	18	26	4.8	42.6
1958	17	15	5.5	34.9
1959	13	8	5.6	30.8
1960	11	12	5.2	35.3

Table showing primary notifications and deaths from Tuberculosis during past 20 years:—

Year	Primary notifications	Deaths	Death rate per 1,000 population
1941	740	402	·52
1942	713	302	·40
1943	685	339	·46
1944	734	332	·45
1945	669	302	·41
1946	510	310	·40
1947	655	296	·38
1948	601	279	·35
1949	565	266	·33
1950	582	195	·24
1951	546	181	·22
1952	568	146	·18
1953	514	104	·12
1954	458	113	·13
1955	505	90	·11
1956	460	106	·12
1957	435	83	·10
1958	351	66	·08
1959	256	57	·06
1960	244	44	·05

The 1960 deaths are made up as follows :—

	Male	Female	Total
Pulmonary — — —	28	9	37
Non-Pulmonary — —	2	5	7
	<u>30</u>	<u>14</u>	<u>44</u>

Death Rates, 1960—

All forms	.049 per 1000 of population
Pulmonary	.041 per 1000 of population
Non-Pulmonary	.008 per 1000 of population

Summary of Notifications during the period from the 1st January, 1960, to the 31st December, 1960.

PART I.

FORMAL NOTIFICATIONS

Number of Primary Notifications of new cases of tuberculosis														
Age Periods	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Total (all ages)
Respiratory, Males	—	—	3	—	1	5	10	15	25	34	22	12	4	131
„ Females	—	2	1	1	3	12	12	18	13	6	7	3	1	79
Non-respiratory,														
Males	—	1	2	1	5	—	1	3	1	1	1	—	1	17
„ Females	—	—	—	2	1	1	5	3	3	1	—	1	—	17

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Source of Information	Number of cases in age Groups										TOTAL
	0—	15—	20—	25—	35—	45—	55—	65—	75—		
Death Returns from Local Registrars—	Respiratory	M	—	—	—	1	1	3	2	—	7 (A)
		F	—	—	—	—	1	1	1	—	3 (B)
	Non-Respiratory	M	—	—	1	—	—	—	—	—	1 (C)
		F	—	—	—	—	1	1	—	—	2 (D)
Death Returns from Registrar-General (Transferable deaths)	Respiratory	M	—	—	—	—	1	—	2	—	3 (A)
		F	—	—	—	—	—	—	—	—	— (B)
	Non-Respiratory	M	—	—	—	—	—	—	—	—	— (C)
		F	—	—	1	—	—	1	—	—	2 (D)
Posthumous Notifications	Respiratory	M	—	—	—	—	—	—	—	—	— (A)
		F	—	—	—	—	—	—	1	—	1 (B)
	Non-Respiratory	M	—	—	—	—	—	—	—	—	— (C)
		F	—	—	—	—	—	—	—	—	— (D)
TOTALS											10
											4
											1
											4

Contacts.

During the year 1960, approximately 2,925 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

Mass Miniature Radiography

During 1960 Mass Miniature Radiography Units from the Liverpool and Manchester Regional Hospital Boards visited fifteen areas in Cheshire, and details of the numbers examined and the abnormalities detected are given below. The opportunity was taken during these visits to arrange for the nursing, teaching and children's department staff in the districts concerned to be examined on a voluntary basis.

<i>Area</i>	<i>Type of Examinee</i>	<i>Total Number Examined</i>	<i>No. of cases of active T.B. detected</i>
Liverpool Unit—			
County Hall			
inc. Backford Hall	Administrative Staff	621	1
Ellesmere Port	Industry and General Public	7,476	2
Runcorn	ditto	1,682	
Frodsham	General Public	117	
Helsby	Industry and General Public	1,354	1
Neston	General Public	232	
Bromborough	Industry and General Public	1,610	1
Heswall	ditto	352	1
West Kirby	General Public	265	
Hoylake	General Public	143	
Manchester Unit—			
Bredbury and Romiley	Industry and General Public	5,630	14
Carrington and Partington	ditto	3,933	8
Crewe	ditto	17,860	31
Marple	ditto	1,414	3
Northwich and Weaverham	ditto	5,800	5
Totals		48,489	67

Classification of cases diagnosed:—

(a) Active tuberculosis requiring treatment	67
(b) Tuberculosis requiring occasional supervision	104
(c) Carcinoma of lung	13
(d) Other abnormalities	540
Total abnormalities detected	724

B.C.G. Vaccination

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister in 1949. They provided for B.C.G. vaccination of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis, as a result of the vaccination. In 1954, the Minister gave approval to the scheme being extended to provide for the B.C.G. vaccination of children between 13 and 14 years of age. In 1959, the scheme was further extended to allow for the arrangements to cover school children of 14 years and upwards and also students attending Universities, teacher training colleges and technical colleges, or other establishments of further education.

The chest physicians employed by the Regional Hospital Boards, towards whose salaries the County Council pays a specified proportion, all Divisional Medical Officers and two Assistant County Medical Officers are approved for the purpose of giving B.C.G. vaccination.

During 1960, the chest physicians vaccinated 826 cases, and the Divisional Medical Officers vaccinated 140 cases, under the contact scheme. In addition to these, 1,718 new-born infants were vaccinated.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 10,067 school children and 1,424 students during the year and details of the work carried out under the schemes are as follows:—

B.C.G. VACCINATION

School Children Scheme

Number of consent forms issued	17,952
Number of consents received	13,851

	<i>Number tested</i>	<i>+ve</i>	<i>—ve</i>
Mantoux tests	4,298	779	3,406
Multiple puncture tests	9,360	2,037	6,961
Totals	13,658	2,816	10,367

Follow-up skin test (12 months)	4,681	4,385	166
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	<i>Fluid Vaccine</i>	<i>Freeze dried Vaccine</i>	<i>Total</i>
Number vaccinated with B.C.G.	2,408	7,659	10,067
Number re-vaccinated with B.C.G.	35	85	120

Students' Scheme

Number of consent forms issued .....	.....	.....	.....	4,237
Number of consents received .....	.....	.....	.....	2,128
	<i>Number</i>			
	<i>tested</i>	<i>+ ve</i>	<i>-ve</i>	
Mantoux tests	879	220	658	
Multiple puncture tests	1,098	261	6,961	
	<hr/>	<hr/>	<hr/>	
Totals	1,977	481	10,367	
	<hr/>	<hr/>	<hr/>	
Follow-up skin test (12 months)	295	279	16	

	<i>Fluid</i>	<i>Freeze</i>		
	<i>Vaccine</i>	<i>dried</i>		
	<i>Vaccine</i>	<i>Vaccine</i>	<i>Total</i>	
Number vaccinated with B.C.G.	249	1,175	1,424	
Number re-vaccinated with B.C.G.	22	1	23	

<i>Contact Scheme</i>	<i>County</i>	<i>Chest</i>		
	<i>Staff</i>	<i>Physicians</i>	<i>Total</i>	
Number skin tested	155	1,443	1,598	
Number found positive	8	524	532	
Number found negative	137	849	986	
Number vaccinated	140	826	966	

Since the start of the Contact Scheme in 1950, and the School Children Scheme in 1954, the following numbers have been vaccinated:

Contacts

By Chest Physicians .....	.....	.....	.....	5,702
By Divisional Medical Officers .....	.....	.....	.....	1,261

School Children

By Divisional Medical Officers and Assistant County Medical Officers	39,548
----------------------------------------------------------------------------	-------	-------	-------	--------

Students

By Divisional Medical Officers and Assistant County Medical Officers	1,424
----------------------------------------------------------------------------	-------	-------	-------	-------

Babies

At Hospitals and Clinics	5,519
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Total 53,454

Mental Illness

The care and supervision of patients at home suffering from mental illness was carried out by Mental Welfare Officers. Arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Other Illnesses

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay. The services of a domestic help and a district nurse are also available on request from the general practitioner to help a mother to nurse a child at home and avoid the admission of the child to hospital.

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help.

Health Education.

An important aspect of "prevention of illness" is health education, and details of the ways in which this is carried out are given below. Routine health education is given by members of the staff, particularly the health visitors, to individuals and small groups, and supplies of leaflets and books are available at the Infant Welfare Centres and Young Children's clinics. At the clinic centres a variety of posters are also displayed. The subjects covered are concerned with home safety, the care of babies and young children, and vaccination and immunisation. Comment is made (page 74) on Health Education for expectant mothers and the parents of young Children.

The Divisional Medical Officers are continually being called on to give lectures to local organisations, and during the year the subjects covered included home accidents, coronary thrombosis, mental health, smallpox, and the connection between tobacco smoking and lung cancer. Courses on First Aid were also arranged. The health visitors are much in demand for lectures to mothercraft classes and young wives' associations, etc.

Each division has a filmstrip projector, and there are at present nearly 200 filmstrips on about seventy different subjects available in the County for use in any division. The subjects covered include prevention of illness, home safety, nutrition, mental health, care of babies, vaccination and immunisation, personal and home hygiene. Another form of visual aid used at lectures is the flannelgraph, and there are a variety of subjects covered by this form of display.

At County headquarters a stock is kept of approximately 100 different leaflets on a large variety of subjects for issue free to the public through the Divisional Medical Officers and the health visitors. The Divisional Medical Officers make great use of the birthday card, which is a message from the Medical Officer of Health to parents of children reaching their first birthday and gives general advice.

Increasing efforts are being made to educate the public about cancer, and the County Health Committee makes a large contribution to the cost of the work carried out by the Manchester Committee on Cancer, which operates in that area of the County covered by the Manchester Regional Hospital Board. The work is carried out mainly by means of lectures and the provision of displays for public exhibitions. In 1960 the Manchester Committee decided to undertake on behalf of local authorities the instruction of school children in the connection between lung cancer and tobacco smoking. This facility has been brought to the notice of the Head Teachers of secondary modern and grammar schools.

Discussions continued to take place during 1960 about the formation of a similar organisation for the Liverpool area covering the remainder of the County, and shortly after the end of the year the constitution of the Committee for Education of the Public on Mersey side was agreed, and the County Health Committee approved a grant to the Committee which it is hoped will soon start to operate.

In 1959, a meeting took place to discuss the formation of local Home Safety Committees, at which representatives of the County Council and the District Councils attended. It was recommended that it should be left to voluntary societies to form the local Home Safety Committees, on which representatives of the Divisional Health Committees could serve, if necessary. The County Health Committee has already made grants to four such societies, at Bebington, Nantwich, Hazel Grove, Bramhall and Sale.

Eight editions of a Home Safety handbook were available to bring to the notice of the public the ways in which accidents in the home occurred and the ways in which they can be avoided. The handbooks gave details of the services available in each of the eight areas.

Health education is also furthered by displaying the work of the department on stalls whenever the opportunity occurs at shows and other public exhibitions.

Nursing Equipment

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge, and a weekly hire payment in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests.

The Divisional Medical Officers make available larger items of equipment such as mattresses, beds, bed cradles, crutches, rubber sheets, etc., and keep reserve stocks of the items held by the Home Nurses. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

The following table gives the numbers of the main items held by Divisional Medical Officers or in stock at Winsford store:—

<i>Item</i>	<i>No.</i>	<i>Item</i>	<i>No.</i>
Bedpans, Rubber	8	Hoists	17
Bedpans, large	74	Hospital type beds	12
Bedpans, medium	224	Pulley attachments for	
Bedpans, small	14	hospital type beds	4
Toilet seats, inflatable	5	Hospital type cot beds	3
Rings, foam rubber	34	Mattresses, foam rubber	11
Rings, air	194	Air/Water beds	15
Urinals, male	154	Walking aids	38
Urinals, female	72	Electric blanket	1
Beds, ordinary	20	Wheelchair, motorised	1
Bed Cradles	52	Special Beds with various	
Mattresses	23	attachments	8
Bed Trays	10	Mobile invalid seat	1
Blankets	54	Travelling folding wheelchair	1
Sheets	85	Leg extension to standard	
Draw Sheets	30	type wheelchair	1
Pillows	12	7 in 1 walking and	
Pillow cases	38	exercising aid	1
Commodes	76	Spastic chairs	5
Douche pans	40	Wheelchairs, push type	116
Sputum cups	66	Wheelchairs, capable of	
Paper handkerchiefs	5000	being propelled by patient	17
Breast pumps	8	Self-lifting poles	3
Stair carriage	1	Enuresis alarms	32
Crutches	80	Spinal carriage	3
Rubber sheets	314	T.B. Shelters	3
Feeding cups	112	Folding triangular frame	2
Steam kettles	43	Ejector seat	1
Hot water bottles	63	Fracture boards	1
Back rests	216	Toilet seat aid	2
Sputum flasks	131	Bath aids	4
Walking sticks	18	Bath steps	1
Disposable underpads	1500	Bath, special mat	1

Recuperative Convalescence

During the year 1960, 97 patients were sent for recuperative convalescence for periods varying between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Ten of the cases were mothers and children sent to the Brentwood Recuperative Centre, Marple. This centre caters mainly for women of limited resources with young children who need a period of recuperation following hospital treatment, mental and physical distress arising from difficult domestic circumstances, bad housing, etc., or prior and subsequent to confinement. The distribution of cases throughout the County was as follows:—

Division	No. of Cases	Division	No. of Cases
Altrincham	14	Nantwich	2
Bebington	4	North East Cheshire	4
Cheadle and Wilmslow	1	Runcorn	4
Crewe	8	Sale and Lymm	2
Deeside	1	South East Cheshire	7
Hyde	17	South West Cheshire	4
Macclesfield	4	Stalybridge & Dukinfield	13
Mid-Cheshire	12		

Also under Section 28, 20 mentally subnormal children were found accommodation for short periods during the year.

Special Laundry

This service, which was originally on trial in the Hyde Division has been extended to the rest of the County. It is available for aged and handicapped persons who are receiving the attention of a home help or a domiciliary nurse. Special bags are provided in which the bundle of dirty clothing is placed. It is collected, and the normal practice is to deliver it to the nearest hospital which has agreed to carry out the laundering of the articles. Patients pay according to their means, with a minimum charge of 6d. and a maximum charge of 3s. 10d. per bundle, although these charges can be varied in exceptional circumstances. The following work under this heading was carried out during the year:—

Number of		Charges to Patients			
Patients	Bags	Full	Intermediate	Minimum	Nil
29	356	13	5	5	6

Sitters-In

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in. In 1960 sitters-in were provided for eleven cases.

Chiropody Service

Details of the County Chiropody Service, which came into operation on 1/10/59, are as follows:—

- (a) The service is available to persons over the age of 65 years, physically handicapped persons and expectant mothers recommended for treatment by their family doctor or the district nurse.
- (b) All chiropodists holding a qualification laid down in the National Health Service (Medical Auxiliaries) Regulations, 1954, are entitled to take part, giving treatment in their own premises or in the patient's own home.
- (c) Persons entitled to the service may attend any registrable chiropodist of their own choice who is willing to take part in the scheme.
- (d) A patient unable to travel to the Chiropodist's surgery may have the treatment carried out at home and for this the Chiropodist receives an extra fee.
- (e) The fees for treatment on the premises of a Voluntary Society are paid direct to the Society which makes its own arrangements with the Chiropodist.
- (f) The Authority pays the whole of the fees in respect of persons in receipt of National Assistance benefit or whose sole income is the statutory retirement pension.

The following scale of aid was in operation in 1960:—

Free treatment—	Those in receipt of National Assistance benefit or whose income does not exceed £4 per week in the case of single persons, or £6 per week in the case of married persons
Half cost paid by Cheshire County Council	When income between £4 and £5 10s. 0d. per week in the case of single persons. When income between £6 and £8 per week in the case of married persons.

The Divisional Health Committees have power to vary these payments in exceptional or necessitous cases.

In 1960, in agreement with representatives of the Chiropodists, it was agreed that only six treatments would be authorised under the County scheme in the first six months after approval was given to an application for treatment. Following that, six treatments would be approved within the ensuing twelve months. The Divisional Medical Officers were able to authorise more frequent treatments in exceptional cases.

The table below gives details of the work carried out during 1960.

CHIROPODY SERVICE 1960

Division	Place of Treatment						Total		Fees paid by C.C.C.	
	Chiroprapist's Surgery		Home of Patient		Club					
	Cases	Treat- ments	Cases	Treat- ments	Cases	Treat- ments	Cases	Treat- ments		Full	Part
Altrincham	438	1620	102	515	97	404	637	2539	600	41
Bebington	56	266	107	586	—	—	163	652	147	16
Cheadle and Wilmslow	642	3471	78	707	122	1004	842	5182	805	34
Crewe	405	2651	87	414	—	—	492	3065	476	16
Deeside	109	519	73	366	2	22	184	907	168	16
Hyde	271	1555	274	2037	21	153	566	3745	542	24
Macclesfield	224	1451	156	998	—	—	380	2449	356	24
Mid-Cheshire	439	2814	71	369	—	—	510	3183	450	60
Nantwich	40	195	18	119	31	118	89	432	82	7
N.E. Cheshire	299	2699	143	1287	—	—	442	3986	398	28
Runcorn	142	715	78	238	—	—	220	953	213	4
Sale and Lymm	237	1653	81	488	—	—	318	2141	288	30
S.E. Cheshire	491	2095	109	556	108	432	703	3083	677	31
S.W. Cheshire	261	1482	160	874	50	286	471	2642	450	21
Stalybridge and Dukinfield	252	1001	61	338	—	—	313	1339	304	9
TOTALS	4,306	24,187	1,598	9,892	431	2419	6,335	36,498	5,956	361
Category of patients:—										
(a) Over 65 years	4,198	23,730	1513	9315	425	2399	6,136	35,444		
(b) Physically handicapped	109	645	85	577	6	20	200	1242		
(c) Expectant Mothers	3	12	—	—	—	—	3	12		

Infectious Disease

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious disease in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors.

The following table gives the number of cases notified under the various headings during the year 1960.

	Scarlet Fever	Whooping Cough	Acute Poliomyelitis Paralytic	Acute Poliomyelitis Non-Paralytic	Measles (excluding Rubella)	Diphtheria	Acute Pneumonia	Dysentery	Smallpox	Acute Encephalitis Infective
Altrincham M.B.	15	36	—	—	134	—	15	6	—	—
Bebington M.B.	31	58	1	—	326	—	15	21	—	—
Congleton M.B.	6	35	—	—	50	—	8	2	—	—
Crewe M.B.	86	145	—	—	41	—	—	33	—	—
Dukinfield M.B.	6	13	—	—	13	—	1	138	—	—
Ellesmere Port M.B.	15	19	1	—	817	—	3	4	—	—
Hyde M.B.	14	29	—	—	17	—	6	17	—	—
Macclesfield M.B.	51	108	—	—	107	—	8	88	—	—
Sale M.B.	51	100	1	—	189	—	3	39	—	—
Stalybridge M.B.	9	63	—	—	145	—	2	156	—	—
Alderley Edge U.D.	1	4	—	—	4	—	2	18	—	—
Alsager U.D.	1	14	—	—	4	—	4	—	—	—
Bollington U.D.	1	34	—	—	38	—	—	122	—	—
Bowdon U.D.	1	26	—	—	3	—	—	—	—	—
Bred. and Rom. U.D.	28	7	—	—	32	—	1	7	—	2
Cheadle and Gatley U.D.	75	10	—	1	241	—	1	10	—	—
Hale U.D.	—	11	—	—	2	—	1	—	—	—
Hazel Grove and Bramhall U.D.	8	15	—	—	62	—	—	25	—	—
Hoylake U.D.	11	21	2	1	124	—	7	49	—	—
Knutsford U.D.	—	—	—	—	2	—	—	—	—	—
Longdendale U.D.	2	—	—	—	1	—	4	3	—	—
Lymm U.D.	—	—	—	—	—	—	—	—	—	—
Marple U.D.	11	2	—	—	2	—	—	1	—	—
Middlewich U.D.	—	1	—	—	6	—	—	—	—	—
Nantwich U.D.	6	30	—	—	3	—	—	2	—	—
Neston U.D.	6	7	—	—	167	—	3	2	—	—
Northwich U.D.	8	8	1	1	8	—	4	3	—	—
Runcorn U.D.	58	18	—	—	269	—	—	—	—	—
Sandbach U.D.	15	9	—	—	6	—	—	1	—	—
Wilmslow U.D.	2	11	—	—	9	—	—	7	—	—
Winsford U.D.	3	—	—	—	3	—	—	—	—	—
Wirral U.D.	8	1	—	—	59	—	12	—	—	—
Bucklow R.D.	3	25	—	—	30	—	1	1	—	—
Chester R.D.	9	27	—	—	163	1	3	2	—	—
Congleton R.D.	4	16	—	—	26	—	5	6	—	—
Disley R.D.	—	—	—	—	7	—	—	—	—	—
Macclesfield R.D.	13	10	—	—	39	—	4	101	—	—
Nantwich R.D.	10	74	—	—	24	—	5	1	—	—
Northwich R.D.	49	13	—	—	83	—	3	3	—	—
Runcorn R.D.	42	71	—	—	326	—	6	2	—	—
Tarvin R.D.	34	1	—	—	98	—	9	—	—	—
Tintwistle R.D.	—	—	—	—	1	—	—	—	—	—
TOTAL,	693	1072	6	3	3681	1	136	870	—	2

	Acute Encephalitis Post Infectious	Enteric or Typhoid Fever	Paratyphoid Fever	Erysipelas	Meningococcal Infection	Food Poisoning	Tuberculosis Respiratory	Tuberculosis Meninges and C.N.S.	Tuberculosis Other	Puerperal Pyrexia	Ophthalmia Neonatorum
Altrincham M.B.	—	—	—	3	1	—	16	—	2	1	—
Bebington M.B.	—	—	—	5	—	48	16	1	2	—	—
Congleton M.B.	—	—	—	1	—	1	5	—	—	—	—
Crewe M.B.	—	—	—	2	—	90	29	—	1	1	—
Dukinfield M.B.	—	—	—	—	—	5	3	—	—	—	—
Ellesmere Port M.B.	—	—	—	4	—	—	9	—	—	1	—
Hyde M.B.	—	—	—	5	—	—	8	—	2	1	—
Macclesfield M.B.	—	—	—	2	—	10	5	—	1	1	—
Sale M.B.	—	—	—	1	—	5	15	1	4	5	—
Stalybridge M.B.	—	—	—	2	—	10	10	—	4	—	—
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Alderley Edge U.D.	—	—	—	—	—	—	4	—	—	—	—
Alsager U.D.	—	—	—	—	—	—	—	—	—	—	—
Bollington U.D.	—	—	—	—	—	—	—	—	—	—	—
Bowdon U.D.	—	—	1	—	—	—	—	—	—	—	—
Bred. and Rom. U.D.	—	—	—	—	—	—	7	—	—	1	—
Cheadle and Gatley U.D.	—	—	2	1	—	3	9	2	—	—	—
Hale U.D.	—	—	—	—	—	—	—	—	—	—	—
Hazel Grove and Bramhall U.D.	—	—	—	—	1	—	6	—	1	1	—
Hoylelake U.D.	—	—	1	1	—	—	6	1	2	—	—
Knutsford U.D.	—	—	—	—	—	—	4	—	1	—	—
Longdendale U.D.	—	—	—	—	—	—	2	—	—	1	—
Lymm U.D.	—	—	—	—	—	—	—	—	—	—	—
Marple U.D.	—	—	—	—	—	—	3	—	—	1	—
Middlewich U.D.	—	—	—	—	—	—	1	—	1	—	—
Nantwich U.D.	—	—	—	—	—	—	3	1	1	7	—
Neston U.D.	—	—	—	—	—	1	1	—	—	—	—
Northwich U.D.	—	—	—	2	—	—	1	—	—	1	—
Runcorn U.D.	—	—	—	—	—	—	2	—	—	—	—
Sandbach U.D.	—	—	—	1	—	—	—	—	—	—	—
Wilmslow U.D.	—	—	—	—	1	—	3	—	1	—	—
Winsford U.D.	—	—	—	—	—	—	2	—	—	—	—
Wirral U.D.	—	—	2	1	—	—	2	—	—	—	—
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Bucklow R.D.	—	—	—	1	—	—	4	—	—	—	—
Chester R.D.	—	—	—	—	1	4	7	—	—	—	—
Congleton R.D.	—	—	—	—	—	1	2	—	—	—	—
Disley R.D.	—	—	—	—	—	—	1	—	—	—	—
Macclesfield R.D.	—	—	—	2	1	—	10	—	1	1	—
Nantwich R.D.	—	—	—	—	—	1	3	—	3	1	—
Northwich R.D.	—	—	—	—	—	—	2	—	—	—	—
Runcorn R.D.	—	—	—	1	—	2	7	—	1	2	—
Tarvin R.D.	—	—	—	2	—	7	2	—	2	1	—
Tintwistle R.D.	—	—	—	—	—	—	—	—	—	—	—
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TOTAL	—	—	6	37	5	188	210	6	30	27	—

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

Notifications	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951
Measles	3681	11809	4504	11048	3218	10450	6361	7537	9594	9491
Scarlet Fever	693	1049	958	561	733	688	1033	1232	1223	1007
Whooping Cough	1072	729	367	1046	1877	1210	1368	3080	2420	2144
Poliomyelitis	9	14	31	35	131	57	29	53	41	40
Diphtheria	1	0	1	2	0	0	1	6	1	8
Smallpox	0	0	5	0	0	0	0	0	0	0
Tuberculosis:—										
Pulmonary, all ages	210	230	308	374	392	431	393	433	449	432
Non-pulmonary, all ages	34	26	43	61	68	74	87	81	119	114
Pulmonary, Children under 15	11	13	17	18	40	45	46	55	56	30
Non-pulmonary, Children under 15	12	8	15	26	30	38	54	45	62	63

Section VI.-Mothers and Young Children

Health Visiting, etc.

General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now used to carry out the Council's schemes for prevention of illness, after-care, and handicapped persons.

Health Visiting

Number of Health Visitors employed—31.12.1960	—	—	—	116
Equivalent whole-time H.V. Services provided	—	—	—	81
Number of visits paid by Health Visitors during the year.				
Number of children under 5 years of age visited	—	—	—	74,659
Expectant Mothers—				
First Visits	—	—	—	4,472
Total Visits	—	—	—	7,713
Children under one year of age—				
First Visits	—	—	—	16,295
Total Visits	—	—	—	99,294
Children aged 1 and under 2 years—				
Total Visits	—	—	—	43,870
Children aged 2 but under 5 years—				
Total Visits	—	—	—	76,372
Tuberculosis Households—				
Total Visits	—	—	—	5,864
Other cases—				
Total visits	—	—	—	27,216
Total number of households or families visited	—	—	—	66,196

Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

Domiciliary	Nursing Homes	Hospitals
4619	285	10646

Premature Infants

Particular attention is devoted to babies weighing $5\frac{1}{2}$ lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 943 premature live babies were born in the year under review, whose mothers normally live in the Authority's area, 180 at home and 763 in hospitals or nursing homes. Of these 805 survived 28 days. The details are as follows :

	Number of Live Births	Died within 24 hours	Died 1—28 days	Survived 28 days
Born in Hospital	759	73	49	637
Born at home and				
(a) Nursed entirely at home	131	4	2	125
(b) Transferred to Hospital on or before 28th day	49	1	9	39
Born in Nursing Home and				
(a) Nursed entirely there	3	—	—	3
(b) Transferred to Hospital on or before 28th day	1	—	—	1
	943	78	60	805

There were 155 premature stillbirths, 140 being delivered in hospital and 15 at home

Puerperal Pyrexia

27 cases of Puerperal Pyrexia were notified during the year, 7 being domiciliary and 20 institutional confinements.

Maternal Mortality

The maternal mortality for 1960, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.38.

Ante-Natal and Post-Natal Clinics

The number of Ante-Natal clinics conducted by Doctors was 19. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in some districts midwives' clinics have been established.

The following tables give particulars of County clinics held during 1960:—

Doctors' Clinics

Clinic	No. of Sessions	ANTE-NATAL			Post-NATAL
		Attendances	New cases	No. of patients attended during the year	Attendances
Bredbury	39	231	107	111	—
Cheadle	48	322	173	179	—
Congleton	50	326	41	63	—
Ellesmere Port	104	2332	326	435	142
Frodsham*	30	665	64	90	11
Hazel Grove	43	481	200	217	—
Heswall	51	1293	130	159	125
Hoylake	51	1354	194	258	139
Hyde†	50	702	185	223	—
Little Sutton	48	640	93	121	38
Macclesfield Bridge Street	24	574	198	207	—
Hurdsfield House	12	263	77	102	—
Sanders Square	12	197	70	80	—
Neston	47	746	95	132	62
New Ferry	99	510	100	102	24
Runcorn	52	643	173	203	2
Sale	51	1021	264	296	12
Stalybridge	28	189	34	48	25
Timperley†	23	354	74	104	1
Totals	862	12843	2598	3130	581

* Started in 1960

† Non-consultant

Midwives Clinics

CLINIC	No. of Sessions	Attendances	New cases	No. of Cases who attended during year	
Altrincham (Broomwood)	5	11	5	5	
Bollington	51	240	44	59	
Bredbury	48	741	131	182	
Cheadle	50	680	218	246	
Crewe					
Ludford Street	95	605	122	134	
Stalbridge Road	49	281	72	72	
Dukinfield	48	592	159	259	
Frodsham*	8	60	20	20	
Hollingworth	49	61	7	11	
Hoylake	49	168	53	67	
Leftwich	21	74	14	22	
Little Sutton	50	491	92	94	
Lymm	50	236	59	64	
Macclesfield Hurdsfield House	27	106	24	26	
Heyes Hall*	5	11	6	6	
Sanders Square	43	199	53	51	
Marple	50	503	122	135	
Nantwich	48	281	54	55	
Neston	8	30	7	11	
Northwich	49	250	23	28	
Poynton	47	1006	129	19	
Sandbach	53	270	40	51	
Stalybridge (Millbrook)	34	219	46	60	
Stockton Heath	50	444	114	124	
Weaverham	56	282	70	109	
Winsford	48	205	60	71	
* Started in 1960	Totals	1091	8019	1743	2152

Mental Health of Mothers and Young Children.

Expectant mothers regularly attend preparation classes; these are run largely on group discussion lines. It is found that the ventilating of personal problems before the birth of the baby is a great help to the mother-child relationship later.

Classes were held at 27 centres, details of which are given below.

Preparation Classes

CLINIC	No. of Sessions	ANTE-NATAL		No. attend. Relax. Exerc.	
		Atten- dances	New cases		
Alsager	52	355	70	337	
Cheadle	47	1203	180	1098	
Crewe	51	1247	163	1168	
Dukinfe'd	47	602	102	95	
Handforth*	27	331	68	303	
Hazel Grove	52	781	126	748	
Heswall	45	1164	147	1114	
Hoylake	48	1258	152	1173	
Hyde	50	872	139	113	
Little Sutton	51	784	143	487	
Macclesfield	50	343	68	280	
Hurdsfield House					
Sanders Square	44	390	51	35	
Marple	48	505	100	432	
Nantwich	48	761	94	755	
Neston	48	494	64	493	
New Ferry	50	583	88	504	
Northwich	49	345	39	332	
Poynton	48	410	68	387	
Romiley	46	576	90	544	
Runcorn	50	418	69	362	
Sale	51	378	83	228	
Sandbach	52	505	68	369	
Stalybridge	10	32	7	26	
Stockton Heath	48	461	76	392	
Timperley	20	84	31	84	
Weaverham	52	395	81	361	
Winsford	48	250	35	233	
*started in 1960	Totals	1232	15527	2402	12453

Child Welfare Centres

The following Tables give particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

CHILD WELFARE CENTRES, 1960.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood —	Fortnightly	1st and 3rd Monday	22	458	231	21
Alderley Edge	Weekly	Friday	50	1101	748	22
Alsager —	Fortnightly	1st, 3rd and 5th Tuesday	48	1964	251	41
Altrincham — (The Mount)	Twice weekly	Monday & Wednesday	100	4140	561	41
Altrincham (Broomwood)	Weekly	Monday	38	1055	578	28
Altrincham — (Timperley)	Three times weekly	Tuesday a.m. & p.m. & Thursday p.m.	152	5824	1833	38
Audlem —	Fortnightly	1st and 3rd Tuesday	24	831	309	69
Barnton —	Fortnightly	2nd and 4th Wednesday	23	708	107	31
Barrow —	Fortnightly	1st and 3rd Wednesday	24	259	108	11
Bebington — (New Ferry)	Weekly	Wednesday	51	1589	414	32
Bebington — (Bromboro')	Weekly	Thursday	51	1913	474	37
Bebington — (Eastham)	Weekly	Monday	48	1645	289	35
Bebington — (Thornton Hough)	Fortnightly	1st and 3rd Friday	18	139	62	7
Bebington — (Higher Bebington)	Weekly	Tuesday	51	1915	823	37
Bebington — (Mayer Hall)	Weekly	Friday	50	1741	425	35
Bollington —	Fortnightly	2nd and 4th Thursday	24	1281	307	53
Bowdon —	Fortnightly	2nd and 4th Thursday	24	582	193	24
Bramhall — (Bramall Lane)	Fortnightly	1st and 3rd Monday	21	1201	261	57
Bramhall (Bridge Lane)	Fortnightly	2nd and 4th Friday	17	480	79	28
Bredbury —	Twice weekly	Tuesday	50	2441	657	48
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	670	161	24
Bunbury —	Fortnightly	1st and 3rd Friday	24	379	104	17
Carrington —	Monthly	1st Friday	12	145	51	12
Cheadle —	Weekly	Tuesday	51	3288	901	64

CHILD WELFARE CENTRES, 1960—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Cheadle Hulme	Weekly	Tuesdays	51	3050	493	60
Cheadle Road	Fortnightly	2nd and 4th Monday	24	1586	487	66
Christleton	Fortnightly	1st and 3rd Thursday	24	820	237	34
Comberbach	Fortnightly	1st and 3rd Wednesday	24	623	143	26
Congleton	Weekly	Monday	48	2885	1165	60
Crewe	Twice weekly	Thursday a.m. & p.m.	102	3804	576	37
(Ludford St.)						
Crewe	Fortnightly	1st and 3rd Monday	25	565	194	23
(Minshull New Road)						
Crewe	Twice weekly	Monday and Wednesday	99	3765	640	38
(Stalbr'ge Rd.)						
Davenham	Monthly	1st Monday	12	388	53	32
Delamere	Fortnightly	1st and 3rd Wednesday	24	332	51	17
Disley	Fortnightly	1st and 3rd Tuesday	24	856	188	35
Dukinfield	Twice weekly	Wednesday & Thursday	99	3607	1071	36
Ellesmere Port	Twice weekly	Tues. & Fri.	102	3736	497	36
(York Road)						
Ellesmere Port	Monthly	4th Thursday	12	170	90	14
(Ince)						
Ellesmere Port	Weekly	Monday	48	1890	244	39
(Little Sutton)						
Ellesmere Port	Fortnightly	1st and 3rd Thursday	24	660	105	28
(Overpool)						
Farndon	Fortnightly	1st and 3rd Tuesday	24	293	98	12
Frodsham	Fortnightly	Alternate Tuesdays	25	879	278	35
Gatley	Fortnightly	2nd and 4th Thursday	24	1326	363	55
Goostrey	Fortnightly	1st and 3rd Tuesday	24	659	242	27
Grappenhall	Weekly	Tuesday	51	2587	749	51
Greasby	Weekly	Wednesday	51	1802	344	35
Hale	Weekly	Wednesday	52	2172	273	42
Hale Barns	Fortnightly	1st and 3rd Thursday	24	921	256	34
Handforth	Fortnightly	2nd & 4th Monday	26	882	318	34
Hartford	Fortnightly	2nd & 4th Tuesday	23	459	109	20
Haslington	Fortnightly	2nd and 4th Tuesday	24	849	188	35
Hazel Grove	Weekly	Tuesday	51	3895	528	76
Heald Green	Fortnightly	1st & 3rd Thursday	24	1746	560	73
Helsby	Fortnightly	Alternate Tuesdays	26	1164	317	42
Heswall	Weekly	Monday	48	2108	626	44

CHILD WELFARE CENTRES, 1960—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
High Lane	Fortnightly	2nd and 4th Tuesday	23	1163	226	51
Hollingworth	Fortnightly	1st and 3rd Thursday	24	1074	250	45
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	23	724	304	31
Hoylake	Weekly	Thursday	52	2434	558	49
Huntington	Fortnightly	2nd and 4th Wednesday	24	465	62	19
Hyde (Bayley Hall)	Twice weekly	Mon. & Fri.	90	3579	961	40
Hyde (Parsonage St.)	Twice weekly	Wed. & Thurs.	89	4595	630	52
Irby	Weekly	Wednesday	33	1014	286	31
Kelsall	Fortnightly	1st and 3rd Tuesday	24	692	162	29
Kingsley	Fortnightly	2nd & 4th Wednesday	24	253	65	11
Knutsford	Weekly	Wednesday	51	2145	575	42
Lacey Green	Fortnightly	1st and 3rd Monday	23	622	228	27
Leftwich	Fortnightly	2nd and 4th Tuesday	23	788	217	34
Lostock Gralam	Fortnightly	2nd and 4th Wednesday	23	681	195	30
Lower Peover	Monthly	2nd Monday	12	140	48	12
Lymm	Weekly	Tuesday	51	3008	832	59
Macclesfield (Bridge St.)	Weekly	Monday	46	1991	672	43
Macclesfield (Heyes Hall)	Weekly	Wednesday	51	1349	421	26
Macclesfield (Hurdsfield House)	Weekly	Thursday	51	2010	509	39
Macclesfield (Sanders Sq.)	Weekly	Friday	51	1369	419	27
Malpas	Fortnightly	1st and 3rd Monday	25	406	153	16
Marple	Weekly	Wednesday	50	3124	903	62
Marple Bridge	Fortnightly	2nd and 4th Thursday	24	852	240	35
Mellor	Fortnightly	1st and 3rd Thursday	24	503	235	21
Middlewich	Weekly	Monday	48	1204	359	25
Mobberley	Fortnightly	Alternate Tuesdays	25	406	286	16
Moulton	Monthly	3rd Wed.	12	179	37	15
Mow Cop	Fortnightly	1st and 3rd Wednesday	24	247	212	10
Nantwich	Weekly	Thursday	51	2310	426	45
Neston	Weekly	Thursday	49	3585	250	73
Northwich (Darland House)	Weekly	Tuesday	51	1144	298	22

CHILD WELFARE CENTRES, 1960—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Northwich — (Parkfield)	Weekly	Thursday	51	2479	242	49
Over Peover—	Fortnightly	1st and 3rd Monday	21	267	114	12
Partington —	Weekly	Thursday	45	1049	823	23
Pensby	Fortnightly	2nd and 4th Tuesday	15	730	216	48
Plumley —	Fortnightly	1st and 3rd Thursday	24	465	118	19
Poynton —	Weekly	1st and 3rd Thursday	52	2451	713	47
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	291	69	12
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	237	64	10
Rode Heath—	Fortnightly	2nd and 4th Monday	24	500	134	20
Romiley —	Weekly	Thursday	50	2136	718	42
Runcorn — (Halton Road)	Twice weekly	Wednesday a.m. & p.m.	102	2692	848	26
Runcorn (Weston Point)	Fortnightly	1st and 3rd Thursday	24	669	214	27
Sale (Brooke's Institute)	Weekly	Friday	49	3086	576	63
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	102	3822	719	37
Sale (Raglan Road)	Weekly	Tuesday	50	2159	648	43
Sale Moor —	Weekly	Thursday	49	2241	552	46
Sandbach —	Twice Weekly	Tuesday a.m. & pm.	102	3358	823	33
Sandiway —	Fortnightly	1st and 3rd Tuesday	24	1494	133	62
Saughall —	Fortnightly	1st, 3rd & 5th Monday	28	677	206	24
Scholar Green	Fortnightly	2nd and 4th Wednesday	24	594	209	25
Shavington —	Fortnightly	2nd and 4th Tuesday	23	826	99	4
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	100	3303	675	33
Stalybridge — (Millbrook)	Weekly	Monday	48	1609	156	33
Stockton Heath	Weekly	Monday	48	1085	439	22
Sutton — (at Sanders Square)	Fortnightly	2nd and 4th Wednesday	23	240	74	10
Tarporley —	Fortnightly	2nd and 4th Thursday	24	651	67	27
Tarvin —	Fortnightly	2nd and 4th Wednesday	24	500	122	21
Tattenhall —	Fortnightly	2nd and 4th Monday	23	273	96	12

CHILD WELFARE CENTRES, 1960—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Tintwistle	— Fortnightly	2nd & 4th Thursday	24	644	131	27
Upton	— Weekly	Thursday	51	1598	524	31
Weaverham	— Weekly	Tuesday	51	2632	104	52
West Kirby	— Weekly	Friday	51	2338	529	46
Willaston (Wirral)	— Fortnightly	1st and 3rd Friday	22	419	175	19
Wilmslow	— Weekly	Thursday	51	1892	464	37
Winsford	— Weekly	Friday	51	1419	401	28
Wistaston (Willaston)	Fortnightly	2nd and 4th Wednesday	23	515	106	22
Wrenbury	Fortnightly	2nd and 4th Wednesday	23	226	86	10

Infant Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in the various aspects of centre work was continued.

Welfare Foods Service

At 31st December, 1960 there were, in all, 187 distribution centres in the administrative county, 116 of these being manned by voluntary personnel, and 71 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

Supplies are received from Associated Deliveries Ltd. Depots at Liverpool and Manchester. Associated Deliveries Ltd. act as agents of the Ministry of Agriculture, Fisheries and Food in the matter of storage and delivery. It is usual for 4 to 5 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 692,907 articles were distributed to individual beneficiaries, N.H.S. Hospitals, and day nurseries during the period 27th December, 1959, to 31st December, 1960, made up as follows :

National Dried Milk	—	—	—	203,099 tins
Cod Liver Oil	—	—	—	47,865 bottles
Vitamin A & D Tablets	—	—	—	47,206 packets
Orange Juice	—	—	—	394,737 bottles

Young Children

Young Children's Clinics were held in 40 centres. At these, Assistant County Medical Officers specially interested in early behaviour problems, can hear of the mothers' difficulties. The very fact of discussing them often indicates to the mother what course she should take. If it should be necessary, the general practitioner's agreement is obtained to refer a case to the Child Guidance Service. Psychiatrists in the Liverpool Region have been most helpful in meeting health visitors and discussing problems with them. It is hoped to develop this still further. Details of the attendances at these clinics in 1960 are given below.

YOUNG CHILDREN'S CLINICS, 1960.

Centre	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
ALTRINCHAM				
The Mount	10	95	95	9
Broomwood	9	109	109	12
Timperley	11	144	144	13
BEBINGTON				
New Ferry	11	163	163	15
Bromborough	12	117	117	9
Eastham	12	165	165	14
Mayer Hall	10	112	112	11
BREDBURY	10	86	86	9
CHEADLE	11	153	153	14
CONGLETON	9	76	76	8
CREWE				
Ludford Street	9	54	54	6
Stalbridge Road	10	95	95	9
DUKINFIELD	9	127	67	13
ELLESMERE PORT				
York Road	11	118	118	11
Little Sutton	12	124	124	10
GATLEY	12	161	161	13
HALE	10	92	92	9
HAZEL GROVE	12	237	237	19
HESWALL	11	116	116	11
HOYLAKE	12	113	113	9
HYDE				
Bayley Hall	11	489	113	44
Parsonage Street	10	379	73	38
KNUTSFORD	12	126	126	10
LYMM	16	204	204	13
MACCLESFIELD				
Bridge Street	10	113	106	11
Hurdsfield House	24	470	334	20
Sanders Square	12	76	50	6
MARPLE	9	39	39	4
MIDDLEWICH	11	79	79	7
NANTWICH	7	50	50	7
NESTON	10	61	61	6
NORTHWICH				
Parkfield	11	80	80	7
POYNTON	7	68	68	10
ROMILEY	10	70	68	7
RUNCORN				
Halton Road	12	94	94	7
SALE				
Chapel Road	12	138	138	11
STOCKTON HEATH	7	71	71	10
WEAVERHAM	10	69	69	7
WILMSLOW	12	134	134	11
WINSFORD	12	195	107	16
	80			

Dental Care

Increasing importance is now attached to the provision of Dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

DENTAL REPORT

Mothers and young children are dealt with during School Dental clinic sessions.

All necessary treatment is carried out, if necessary with local or general anaesthetic.

All dentures are set up by a mechanic, and impressions and fittings carried out by the dental surgeon.

Two clinics possess X-Ray apparatus, and for other clinics arrangements are made with the local hospital.

The following details show the work done during the year 1960:—

1960	Expectant Mothers	Nursing Mothers	Children under 5 years
<i>(a) Numbers provided with Dental Care</i>			
Examined	147	263	996
Needing Treatment	144	259	906
Treated	139	240	882
Made Dentally Fit	92	185	834
Total Attendances	346	893	1381
<i>(b) Forms of Dental Treatment Provided</i>			
Temporary Extractions	—	—	1290
Permanent Extractions	247	846	—
Temporary Teeth Filled	—	—	521
Permanent Teeth Filled	130	200	—
Anaesthetics —Local	43	111	25
General	53	102	535
Partial Upper Dentures fitted	7	27	—
Full Upper Dentures fitted	14	61	—
Partial Lower Dentures fitted	3	17	—
Full Lower Dentures fitted	10	53	—
Scalings or Scaling and Gum Treatment	60	125	52
Silver Nitrate Treatment	6	12	130
Dressings	18	67	34
Radiographs	5	5	2
Number of Sessions spent on M.C.W. work			282

Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 28 Cheshire women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 38 such mothers during the year.

Day Nurseries

Details of the 13 Day Nurseries now maintained by the County Council are given on page 38. The following table gives details of the places available and the attendances of children at each nursery in 1960.

Nursery	Approved number of places 31/12/60		Permitted number	Number of children on Register 31/12/60		Average daily attendance 1960	
	0—2	2—5		0—2	2—5	0—2	2—5
Altrincham	15	17	30	8	23	5.8	23.3
Bollington	16	24	30	8	26	8.3	17.5
Bredbury	25	25	30	6	30	8.0	21.8
Bromborough	20	25	30	8	27	4.0	23.3
Congleton	16	24	40	8	37	8.5	33.8
Dukinfield	16	24	35	13	27	9.3	21.3
Ellesmere Port (T)	10	20	30	12	27	8.3	18.5
Hazel Grove	16	24	35	10	31	9.0	22.3
Macclesfield—							
Glegg Street (T)	10	30	40	10	30	9.3	28.8
Hurdsfield (T)	25	25	40	8	37	6.3	30.5
South Park (T)	18	30	40	17	30	10.5	26.3
Runcorn	16	24	30	10	26	8.3	21.0
Sale	20	31	30	3	32	2.5	24.5
Total	223	323	440	121	383	97	312

T—indicates a nursery approved for training purposes.

Nurseries and Daily Minders

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child-Minders Regulation Act, 1948, and the position on 31st December, 1960, was as follows:—

Premises	Number Registered	Number of Children provided for
(a) Factory Nurseries	2	106
(b) Other Nurseries	7	110
	9	216
Daily Minders	22	255

Nursing and Maternity Homes

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1960:—

	Number of Homes	Number of beds provided for:—		
		Maternity	Others	Totals
Homes first registered during year	—	—	—	—
Homes whose registrations were withdrawn during the year	2	—	23	23
Homes on the register at end of year	27	25	242	267
Homes exempt from registration at end of year	1	—	200	200

Artificial Sunlight Treatment

During the year 1960, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	792	Sale	222
Hyde	387	Stalybridge	411
New Ferry	209		

Orthopaedic Scheme

The specialist orthopaedic sessions held at clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1960 at such clinics (excluding those for sunlight only) by children under 5:—

Dukinfield	253	Northwich	208
Ellesmere Port	202	Runcorn	177
Hyde	233	Stalybridge	288
New Ferry	268	Stockton Heath	22

Child Guidance

The authority decided in 1959 to set up two child guidance teams, each comprising two psychologists and three psychiatric social workers under psychiatrists provided by the Regional Hospital Boards. In 1960, owing to difficulty in recruiting staff, only two Psychologists and two Psychiatric Social Workers were operating in the east of the Countys under the Senior School Medical Officer. The services of the team, as they are set up are available to the Medical Officers attending child welfare centres and young children's clinics.

Cerebral Palsy

The cerebral palsy peripatetic team of a physiotherapist and an occupational therapist which was started in April, 1956, continues to operate at clinic centres at Cheadle, Crewe, Macclesfield and Weaverham, and once a month at each clinic Dr. J. D. Allan, the Consultant Paediatrician, attends. The team works in close contact with the appropriate speech therapist and has the services of an Assistant County Medical Officer specially trained in the ascertainment of intelligence in physically handicapped children. Twice each year a special meeting is held of all officers concerned to review all cases attending the clinics. Children usually attend the clinics for treatment once or twice each week. The object is to start the treatment of a cerebral palsied child as early in life as possible, and there have been several cases which have shewn remarkable improvement over a period as short as six months.

The table below gives details of the children attending the clinics during 1960:—

Clinic	No. of sessions weekly	Number of children		
		Attending 31/12 60	Admitted 1960	Discharged 1960
Cheadle	2	9	5	7
Crewe	3	16	4	1
Macclesfield	2	15	4	1
Weaverham	3	13	4	1

Ascertainment of Deafness

An attempt is made to find as early in life as possible every child who has any difficulty with hearing, and to assess carefully his needs regarding medical treatment, education and social development. In this we are fortunate in having the continued help of Professor Sir Alexander Ewing and Dr. Ian Taylor from the University Department of Audiology and Education of the Deaf in Manchester, who conduct quarterly Audiology Clinics at each of five centres in the County.

The children seen at these clinics are selected by the Assistant County Medical Officers, all of whom have attended a short course of training at the University. They are assisted by the health visitors, ninety of whom have now been trained by Professor Ewing's Team to conduct screening tests of hearing in babies and young children. During 1960 nearly 7,000 children were tested in this way at 60 centres in the County, and those failing to respond normally to very quiet sounds are seen by the Medical Officers for further testing.

Schoolchildren whose hearing is questioned by parents, teachers, or health visitors, or at routine medical inspection, are tested by the Medical Officers, using speech and pure-tone audiometry, and an attempt is made to assess the degree of handicap caused by deafness in school progress and attainment. In this they are helped by the two Peripatetic Teachers, both of whom are trained teachers of the deaf.

In all cases where there is difficulty in determining whether the hearing is normal, or in assessing the severity or type of deafness and the educational needs, the child is referred to one of the Audiology Clinics for the advice of Sir Alexander Ewing or Dr. Taylor. 109 children were seen at these clinics during the year, (some on more than one occasion) of whom 85 were schoolchildren and 24 were under school age. In addition a number of children were seen at the Audiology Clinic at Clatterbridge Hospital and at the University Department.

Where deafness is confirmed the child is referred either through the family doctor, or with his consent, for otological opinion and possible treatment, and where appropriate, a hearing aid is supplied through the National Health Service. Sixteen of our health visitors have had special training in the guidance of parents of young deaf children, to help them in home training for the development of speech and language, and this is undertaken in appropriate cases under supervision.

AUDIOLOGY CLINICS—1960

CENTRE	New Cases Seen			Attendances		
	Pre-School	School	Total	Pre-School	School	Total
Hale	6	17	23	10	22	32
Crewe	2	22	24	3	28	31
Chester	7	14	21	13	15	28
Cheadle or Macclesfield	4	17	21	7	23	30
Romiley	5	15	20	6	18	24
TOTAL	24	85	109	39	106	155

Section VII.-Midwifery

General

A summary of the numbers involved is given below, further details on pp. 34-35, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section X.

Number of Midwives in Practice

There were 312 midwives who notified their intention to practise in the County Area during 1960:—

County Midwives	61
District Nurse Midwives	99
Independent Midwives	15
Practising in Private Nursing Homes	5
Practising in Institutions	132

Inspection of Midwives

Visits paid by Senior Medical Officer	72
Lectures to midwives and pupils	26
Visits paid by Non-Medical Supervisor of Midwives:—	
Inspection of County Midwives	87
Inspection of Independent Midwives	2
Statutory supervision of District Nurse Midwives	93
Special visits to Midwives	40
Visits to pupil Midwives	67
Lectures to pupils and Midwives	10
Cases visited:—	
Labours	8
Nursings	105
Ante-natal	53

Cases attended by County Midwives and District Nurse Midwives on County Council Staff

	<i>Deliveries (live and still)</i>		<i>Stillbirths included in Cols. a & b</i>	<i>Miscarriages</i>
	<i>Col. a as midwives</i>	<i>Col. b as maternity nurses</i>		
Midwives	2,424	495	16	69
District Nurse Midwives	1,113	432	17	32
Total	3,537	927	33	101

Number of patients attended by midwives following early discharge from Hospital 4241

Notifications received (Central Midwives Board Rules)

Medical Aid	1203
Stillbirths	82
Laying out the Dead	32
Source of Infection	133
Deaths in the Practice	23

Inhalational Analgesia

- | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|
| (a) Number of domiciliary midwives practising in area
31/12/60, who were qualified to administer inhal-
ational analgesics..... | | 159 |
| (b) Number of sets of apparatus in use by above, 31/12/60 | | 147 |
| (c) Number of cases in which inhalational analgesics
were administered, 1960— | | |
| (a) when doctor was not present | (i) Gas and Air | 2612 |
| | (ii) Trilene | 74 |
| (b) when doctor was present | (i) Gas and Air | 812 |
| | (ii) Trilene | 48 |

Pethidine

Number of cases in which pethidine was administered by domiciliary midwives during 1960:—

- | | | | | | |
|---------------------------------|-------|-------|-------|-------|------|
| (a) When Doctor was not present | ***** | ***** | **** | ***** | 2109 |
| (b) When Doctor was present | ***** | ***** | ***** | ***** | 671 |

General

- | | | | |
|--------------------------------------------------------------------------------|-------|-------|----|
| (a) Number of houses owned by County Council | ***** | ***** | 6 |
| (b) Number of motor vehicles owned by County Council | ***** | | 8 |
| (c) Number of County Midwives receiving County allowance
for their own cars | ***** | ***** | 51 |
| (d) Number of telephone rentals being paid | ***** | ***** | 60 |

Rota System in Domiciliary Midwifery

It has not yet proved possible to introduce a system whereby night calls are taken by midwives who are off-duty during the day.

The districts are such that usually 3 or 4 midwives cover an area and relieve each other; by this means two are always on duty. Alternatives to this method have been discussed with the midwives but they prefer to continue the present system, and it appears to work satisfactorily.

Section VIII. Mental Health

General.

The year 1960 was a most important year in the field of Mental Health; it was World Mental Health Year, and the implementation of the long awaited Mental Health Act took place on the 1st November.

In view of the new Mental Health Act considerable re-organisation within the field of the Mental Health Services was found to be necessary and plans were made for new appointments. The County was divided into nine areas each under the control of a Senior Mental Welfare Officer, and fifteen Mental Welfare Officers or trainees, including eight female officers, were appointed. All such officers are under the supervision of the Superintendent Mental Welfare Officer, who is on the staff of the County Medical Officer at County Hall.

The Mental Welfare Officers had many discussions among themselves, and meetings were held at County Hall prior to the appointed day, so that when the new Act was fully implemented on the 1st November the change-over from the old procedure to the new should go smoothly and efficiently, and this was accomplished.

It was also felt that there should be a senior medical officer, responsible for the overall conduct of the Mental Health Services, and Dr. R. A. Blyth, formerly Assistant County Medical Officer, was appointed to this post as Senior Medical Officer for Mental Health.

The duties of the Senior Medical Officer for Mental Health can be viewed from two aspects, administrative and clinical.

The Mental Health Act has brought about two major changes:—

- (1) The legislation regarding compulsory detention in hospital.
- (2) Emphasis on community care for the mentally disordered wherever possible.

All local authorities and hospitals were urged by the Minister of Health to show interest in World Mental Health Year, and open-days, exhibitions, public meetings, and film shows were held, supported by features on radio and television, particularly during the week 9th to 16th July, 1960, which was designated Mental Health Week. The Junior Training Centres in the county held open days for the public, and a public meeting was held at Hyde at which the County Medical Officer and his mental health staff outlined the implications of the new Mental Health Act.

In addition, the County Medical Officer addressed meetings of general practitioners in various parts of the county, answering questions on the new compulsory admission procedures and other aspects of the new Act.

Community care as laid down in the new Act has shown the necessity for an increase in the professional skill of the mental welfare officer, particularly in the psychological field. Periods of training for selected mental welfare officers have been secured with Manchester and Liverpool Universities following meetings and discussions by the Senior Medical Officer for Mental Health with the principals of the university departments concerned.

Subnormality, one of the largest sub-divisions of mental disorder, represents a big problem in the community, and it is necessary to have a complete clinical assessment of the attainments and potential of all subnormals receiving help from the Mental Health Service. While frequent supervision by the mental welfare officer is valuable, clinical assessment and supportive therapy to the subnormal and his family are medical matters which the Senior Medical Officer for Mental Health has been able to provide on a county scale.

Many of the services afforded to the mentally disordered stem from both local authorities and hospital authorities. In order that maximum benefit can be given with no unnecessary overlapping, the closest liaison between local authorities and hospitals is necessary. This has been achieved by the Senior Medical Officer for Mental Health meeting hospital psychiatrists at conferences and evening meetings at hospitals when individual cases have been discussed and future policies outlined.

An important feature of the new Act is the concept that the dichotomy between subnormality and mental illness which has existed in the past should gradually disappear, and that the standard of service afforded to each should be of an equally high standard. In order to achieve this an out-patient clinic has been established in Macclesfield at which a consultant psychiatrist and the Senior Medical Officer for Mental Health attend. This ensures that the patient readily obtains the help he requires, both from the hospital and local authority viewpoint. Additional facilities for the subnormal will be established in the county, and this will undoubtedly prove of great benefit to the subnormals under our care.

The valuable work of the County Council's cerebral palsy team has continued and clinics are regularly held at Macclesfield, Cheadle, Crewe and Northwich under the supervision of the Consultant Paediatrician at Macclesfield Hospital. Full use is also made of the Cerebral Palsy Units set up at Clatterbridge and the Duchess of York Hospital (Manchester).

Negotiations have taken place with Cheadle Royal Hospital and the County Council has agreed to give such financial assistance to Cheadle Royal as will enable those mentally disordered persons able to work a thirty-eight hour week in the "sheltered workshop" to receive a reasonable minimum wage subject to their being approved by the Ministry of Labour for this purpose.

Co-operation with the County Children's and Welfare Departments has continued as in previous years. Arrangements are almost completed for the admission of mentally sub-normal male adults to the William Gibson Hostel at Wrenbury Hall, where many of them will be employed in the industries maintained for the benefit of tuberculous men.

I acknowledge the ready help given at all times by the Regional Hospital Boards' Bed Bureau which has again on various occasions found prompt places for patients whose admission was of imperative urgency.

TABLE I

The following table shows the number of patients suffering from mental illness admitted to hospital by agency of the Mental Welfare Officers during the period 1st January to 31st October, 1960:—

HOSPITAL	Mental Treatment Act, 1930				Lunacy Act, 1890				Mental Health Act, 1959				TOTAL	
	s. 1 (Vol.)	s. 5 (Temp.)	s. 20 (3 Day)	s. 21 (14 Day)	s. 16 (Certi- fied)	s. 5 (Infor- mal)								
<i>Liverpool Region</i> (Population 273,218)														
Deva, Chester	— 35	20	3	8	57	80	18	23	28	30	46	84	187	245
Winwick, Warrington	— 13	23	—	1	21	24	4	7	1	1	19	27	50	83
St. Catherine's, Birkenhead	1	—	1	—	24	25	—	1	1	1	3	6	30	33
Ormskirk, Lancs.	—	—	—	—	—	1	—	—	—	—	—	—	1	1
	49	43	4	9	102	130	22	31	30	32	68	117	275	362
<i>Manchester Region</i> (Population 626,362)														
Parkside, Macclesfield	— 20	18	—	2	26	26	42	66	17	15	42	48	147	175
Prestwich, Manchester	—	—	—	—	—	1	—	—	—	—	—	—	—	1
Barony, Nantwich	—	1	—	—	13	12	4	12	—	—	59	55	76	80
St. Thomas, Stockport	— 2	1	—	—	3	—	7	2	—	—	4	3	16	6
Ashton General, Ashton-u-Lyne	—	—	—	—	—	2	—	2	—	—	—	26	—	30
Ollersett, New Mills	—	—	—	—	—	—	—	—	—	—	—	1	—	1
	22	20	2	—	42	41	53	82	17	15	105	133	239	293
<i>Others</i>														
Cheadle Royal, Cheshire	2	1	2	2	—	—	—	—	—	8*	4	2	8	13
Various	—	—	—	—	—	—	1	—	1	—	1	1	3	1
	2	1	2	2	—	—	1	—	1	8	5	3	11	14
Totals	— 73	64	6	13	144	171	76	113	48	55	178	253	525	669
Combined Totals	— 137		19		315		189		103		431		1194	

* Including 2 under Section 11

TABLE II

The next table shows the number of patients suffering from mental illness who were admitted to hospital by agency of Mental Welfare Officers under the new procedures from the commencement of the new Mental Health Act, the 1st November to the 31st December, 1960.

HOSPITAL	Mental Health Act, 1959									
	Sect. 5 (In- formal)		Sect. 25 (Observ- ation)		Sect. 26 (Treat- ment)		Sect. 29 (Emer- gency)		TOTAL	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<i>Liverpool Region</i>										
Deva, Chester	17	13	9	3	9	5	9	4	44	25
Winwick, Warrington	6	11	2	5	2	—	1	3	11	19
St. Catherine's, Birkenhead	7	6	—	1	—	—	3	2	10	9
	30	30	11	9	11	5	13	9	65	53
<i>Manchester Region</i>										
Parkside, Macclesfield	17	22	13	16	—	7	6	2	36	47
Barony, Nantwich	2	15	3	2	—	—	2	1	7	18
St. Thomas, Stockport	1	2	—	—	—	1	—	—	1	3
Ashton General, Ashton-u-Lyne	—	2	—	2	—	—	—	—	2	2
Lancaster Moor, Lancaster	—	1	—	—	—	—	—	—	—	1
Stepping Hill, Stockport	—	1	—	—	—	—	—	—	—	1
	20	43	16	20	—	8	8	3	46	72
<i>Other Hospitals</i>										
Cheadle Royal	1	1	1	1	—	—	—	—	2	2
	1	1	1	1	—	—	—	—	2	2
Totals	51	74	28	30	11	13	21	12	113	127
Combined Totals	125		58		24		33		240	

Total number of patients admitted to Mental Hospitals by agency of Mental Welfare Officers under all procedures during the period 1st January to 31st December, 1960

1434

Total number admitted during the corresponding period in 1959

1260

The following particulars show the number of admissions from each of the nine Mental Welfare Officers' areas as constituted in 1960:—

Wirral	236
West Cheshire	300
Runcorn and Lymm	187
Mid-Cheshire	144
Crewe and Nantwich	125
Altrincham, Sale and Knutsford	121
Macclesfield and Congleton	128
North-East Cheshire	57
Hyde, Stalybridge and Dukinfield	136
	<hr/>
	1,434
	<hr/>

In addition, 370 cases were referred to Mental Welfare Officers in which no action was necessary under the Mental Health Act, but appropriate advice and help was given in other ways.

Mental Welfare Officers now have a wide range of duties, as shown in the following table:—

TABLE III.

	Wirral	West Cheshire	Runcorn and Lymm	Mid- Cheshire	Crewe and Nantwich	Altrincham Sale and Knutsford	Macclesfield and Congleton	North-East Cheshire	Stalybridge Hyde and Dukinfield
	Visits	Visits	Visits	Visits	Visits	Visits	Visits	Visits	Visits
<i>Home Visits</i>									
After-care following discharge from hospital	316	191	69	130	240	173	446	42	91
Accompanying Con- sultant Psychiatrist or General Practitioner	24	27	48	68	21	83	53	91	71
Obtaining Case Histories	94	17	49	180	135	39	81	53	81
Whilst patient is still in Hospital	153	51	56	69	68	53	102	77	71
Miscellaneous cases (requiring pre-care advice, etc.)	165	113	246	189	75	179	286	274	431
Supervision of persons suffering from subnormality or severe sub- normality	361	229	373	372	760	764	584	589	277
<i>Hospital Visits</i>									
To patients admitted from County area	24	31	42	40	25	49	161	47	28
Attendances at Case Conferences	2	1	2	8	5	4	51	8	3
Consultations with Medical and Nursing Staff	143	173	34	23	36	64	177	196	22
Total	1282	833	919	1079	1365	1408	1940	1377	1075

During the year 132 cases were referred by Mental Welfare Officers to Out-patient Clinics, and Mental Welfare Officers attended various sessions at such clinics, and helped to convey patients to them. The following table shows the number of attendances made and the number of patients conveyed:—

TABLE IV.

	<i>No. of Attendances</i>	<i>No. of patients escorted to Out-patients Clinics</i>
Wirral	173	44
West Cheshire	78	3
Runcorn and Lymm	83	28
Mid-Cheshire	69	20
Crewe and Nantwich	141	48
Altrincham, Sale and Knutsford	66	19
Macclesfield and Congleton	349	47
North-East Cheshire	229	13
Stalybridge, Hyde and Dukinfield	215	104
	<hr/> 1,403 <hr/>	<hr/> 326 <hr/>

The County is covered by the following Clinics, and as far as possible patients are referred to the nearest establishment:—

Wirral	St. Catherine's Hospital Annexe, Birkenhead Victoria Central Hospital, Wallasey Clatterbridge Hospital, Bebington
West Cheshire	Ellesmere Port Hospital King's Buildings, Chester Moston Hospital, Chester
Runcorn	Victoria Memorial Hospital, Runcorn The Infirmary, Warrington General Hospital, Warrington Winwick Hospital, Winwick
Mid-Cheshire	Victoria Infirmary, Northwich
Crewe and Nantwich	Memorial Hospital, Crewe Barony Hospital, Nantwich.
Altrincham, Sale and Knutsford	Sale and Brooklands War Memorial Hospital
Macclesfield and Congleton	Rosemount Clinic, Macclesfield West Park Hospital, Macclesfield
North-East Cheshire	Stepping Hill Hospital, Stockport St. Thomas's Hospital, Stockport Cheadle Royal Hospital, Cheadle
Stalybridge, Hyde and Dukinfield	Ashton General Hospital, Ashton-u- Lyne

Training Centres for the Mentally Subnormal

The following table shows the numbers of Cheshire cases on the registers of junior training centres at the end of 1960:—

TABLE V.
County Training Centres

		<i>Under 16</i>		<i>Over 16</i>		<i>Total</i>
		<i>M.</i>	<i>F.</i>	<i>M.</i>	<i>F.</i>	
Altrineham	.....	23	19	7	6	55
New Ferry	.....	29	13	5	1	48
Hyde	.....	29	15	4	11	59
Maeclesfield	.....	26	16	3	7	52
Nantwich	.....	18	24	1	3	46
		125	87	20	28	258

		<i>Out-County Centres</i>				<i>Total</i>
Chester	.....	5	7	—	6	18
Stockport	.....	—	1	—	—	1
Victoria Park, Manchester	.....	—	—	3	—	3
Warrington	.....	2	3	—	3	8
		7	11	3	9	30

		<i>Voluntary Centres (Spastic)</i>				<i>Total</i>
Crewe	.....	1	1	—	—	2
Stockport	.....	2	5	—	—	7
Sale	.....	8	3	—	1	12
		11	9	—	1	21

Institutional Accommodation for the Mentally Subnormal

During the year 1960 vacancies were found in institutions as follows for persons suffering from mental subnormality:—

Brockhall Hospital, Langho, Blackburn	.....	4
Calderstones Hospital, Whalley, Blackburn	.....	1
Cranage Hall Hospital, Holmes Chapel	.....	10
Greaves Hall Hospital, Banks, Southport	.....	3
Mary Dendy Hospital, Alderley Edge	.....	12
Manor Hospital, Great Sutton	.....	3
Newehureh Hospital, Culeheth, Warrington	.....	3
Offerton House, Stockport	.....	1
Ormskirk Children's Hospital, Ormskirk	.....	1
Royal Albert Hospital, Lancaster	.....	1
Swinton Hospital, Manchester	.....	7
		46

Temporary Care of the Mentally Subnormal

In 1960 the provision was continued of temporary care by admission to hospital for periods of up to two months during family emergencies, especially during the summer months when permanent patients are on holiday, thus providing a temporary respite for parents of children who could not at the time be permanently accommodated.

During 1960, such temporary care was provided in twenty-six cases. Another method of securing the same benefit has been the provision of short-stay accommodation at the Orchard Dene Hostel, Rainhill, Pallotti Hall Residential Nursery, Nr. Macclesfield and Redcourt, Glossop where similar temporary accommodation is available. Twenty children were so accommodated in 1960.

STATISTICS

TABLE VI.

The following statistics, as supplied to the Ministry of Health, are necessarily divided into two parts, relating to the periods before and after the Mental Health Act came into operation on the 1st November, 1960:—

PART I.—(Mental Deficiency Acts, 1913—1938)

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
1. <i>Particulars of Cases reported</i>					
<i>during the period 1.1.60 to 31.10.60.</i>					
(a) Cases ascertained to be defectives					
"subject to be dealt with"					
Number in which action					
taken on reports by:—					
(1) Local Education Author-					
ities on children					
(i) While at school or					
liable to attend school					
		28	19	—	—
(ii) On leaving special schools					
		2	3	5	2
(iii) On leaving ordinary schools					
		—	1	—	—
(2) Police or by Courts					
		—	—	2	—
(3) Other sources					
		3	2	16	5
Total of 1 (a)		33	25	23	7
(b) Cases reported who were found					
to be defectives but were not					
regarded as "subject to be dealt					
with" on any ground					
		—	5	24	14
(c) Cases reported who were not					
regarded as defectives and are					
thus excluded from (a) or (b)					
		—	—	—	—
(d) Cases reported in which action					
was incomplete at 31st Octo-					
ber, 1960, and are thus excluded					
from (a) or (b)					
		13	3	—	—
Total of 1 (a) - (d) inc.		46	33	47	21

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
<i>2. Disposal of Cases reported</i>					
<i>during the period 1.1.60 to 31.10.60.</i>					
(a) Of the cases ascertained to be defectives "subject to be dealt with" (i.e., at 1 (a)), number :—					
(i) Placed under Statutory Supervision		33	25	14	4
(ii) Placed under Guardianship		—	—	—	—
(iii) Taken to "Places of Safety"		—	—	—	—
(iv) Admitted to Hospitals		—	—	9	3
Total of 2 (a)		33	25	23	7
(b) Of the cases not ascertained to be defectives "subject to be dealt with" (i.e., at 1 (b)), number :—					
(i) Placed under Voluntary Supervision		—	5	24	14
(ii) Action unnecessary		—	—	—	—
Total of 2 (b)		—	5	24	14
(c) Cases reported at 1 (a) or (b) above who removed from the area or died before disposal was arranged					
		—	—	—	—
Total of 2 (a) - (c) inc.		33	30	47	21



PART II—Mental Health Act, 1959.

Number of Patients under
L.H.A. care at 31/12/60

PART II—Mental Health Act, 1959.																					
Number of Patients under L.H.A. care at 31/12/60		Mentally Ill				Psychopath				Subnormal				Severely Subnormal				Totals			
		Under Age 16		16 and over		Under Age 16		16 and over		Under age 16		16 and over		Under Age 16		16 and over		Under Age 16		16 and o	
		M (1)	F (2)	M (3)	F (4)	M (5)	F (6)	M (7)	F (8)	M (9)	F (10)	M (11)	F (12)	M (13)	F (14)	M (15)	F (16)	M (17)	F (18)	M (19)	(
(a) Receiving training or occupation in day centre		—	—	—	—	—	—	—	—	—	—	8	143	107	23	30	143	107	23		
Awaiting training or occupation in day centre		—	—	—	—	—	—	—	—	1	—	37	46	1	3	73	109	2	3	110	
(b) Receiving training or occupation in residential centre		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Awaiting training or occup- ation in residential centre		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(c) Receiving home training		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Awaiting home training		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(d) Resident in L.A. home/ hostel		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Awaiting residence in L.A. home/hostel		—	—	—	—	—	—	—	—	1	—	11	3	5	4	5	4	6	4	16	
(e) Resident at L.A. Expense in private residential home		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(f) Resident at L.A. Expense by boarding out in private home		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
(g) Receiving home visits and not included under (a) to (f)		—	—	104	125	—	—	5	—	8	13	254	157	69	52	44	—	77	65	407	
(h) Others (including not yet visited)		—	—	—	—	—	—	—	—	—	—	16	8	11	4	5	3	11	4	21	
(i) Number of Patients involved at (a) to (h)		—	—	104	125	—	—	5	—	10	13	318	222	229	170	150	146	239	183	577	
Number of Patients in L.H.A. area on waiting list for ad- mission to hospital at 31/12/60																					
(a) In urgent need of hospital care		—	—	—	—	—	—	—	—	—	—	2	2	44	26	11	9	44	26	13	
(b) Not in urgent need of hospital care		—	—	—	—	—	—	—	—	—	—	—	3	19	17	8	7	19	17	8	
Number of Patients admitted temporarily for residential care during 1960																					
(a) To National Health Service hospitals		—	—	—	—	—	—	—	—	—	—	2	3	7	7	2	5	7	7	4	
(b) Elsewhere		—	—	—	—	—	—	—	—	—	—	—	—	11	8	1	—	11	8	1	

Section IX.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Staff employed at 31st December, 1960:—

	Supervisors	Domestic Helps
(a) Whole-time	5	22
(b) Part-time	—	652
Whole-time equivalent of (b)		213

Details of the work carried out in each Division during 1960 are given in the following table:—

DOMESTIC HELP SERVICE, 1960

Division	APPROX. NO. OF HOURS HELP PROVIDED				
	Maternity	Tuber- culous	Chronic Sick aged and infirm	Others	Total
Altrincham	1,596	—	10,843	1,449	13,888
Bebington	750	1,244	30,696	2,513	35,203
Cheadle & Wilmslow*	1,865	—	24,009	1,604	27,478
Crewe†	174	104	50,394	1,088	51,760
Deeside†	1,773	474	28,034	1,587	31,868
Hyde†	308	—	16,258	121	16,687
Macclesfield	1,446	174	26,608	—	28,228
Mid-Cheshire†	526	—	32,150	2,032	34,708
Nantwich†	370	—	25,827	326	26,523
N.E. Cheshire†	3,511	144	24,360	749	28,764
Runcorn	780	468	31,036	3,400	35,684
Sale & Lymm	2,380	30	11,300	1,012	14,722
S.E. Cheshire	365	—	37,901	7,164	45,430
S.W. Cheshire*	546	1,162	34,784	3,046	39,538
Stalybridge & Dukinfield†	359	—	33,631	150	34,140
	16,749	3,800	417,831	26,241	464,621

† Supervisor working in Division.

* Supervisor working in part of Division.

DOMESTIC HELP SERVICE, 1960

Division	HELPS			NUMBER OF CASES				
	Whole-time	No.	Part-time whole-time equivalent	Maternity	Tuber-culous	Chronic Sick aged and infirm	Others	Total
Altrincham	1	27	8	43 (1)	—	87 (37)	35 (1)	165 (39)
Bebington	—	36	16	24 (2)	4 (2)	153 (96)	31 (7)	212 (107)
Cheadle and Wilmslow*	2	36	12	54 (3)	—	104 (53)	18 (2)	176 (58)
Crewet	—	91	22	6 (—)	1 (1)	206 (168)	18 (3)	231 (172)
Deeside†	—	46	15	41 (—)	2 (1)	116 (65)	34 (1)	193 (67)
Hydel	—	16	7	4 (1)	—	154 (109)	2 (—)	160 (110)
Macclesfield	1	33	16	33 (1)	1 (1)	232 (168)	—	266 (170)
Mid-Cheshire†	—	60	15	14 (—)	—	154 (104)	11 (2)	179 (107)
Nantwich†	—	51	12	4 (—)	—	116 (79)	9 (2)	129 (81)
N.E. Cheshire†	—	30	10	93 (4)	2 (2)	187 (109)	31 (4)	313 (119)
Runcorn	—	48	30	26 (—)	2 (2)	150 (114)	15 (5)	193 (121)
Sale and Lymm	4	13	4	67 (2)	1 (1)	94 (51)	24 (1)	186 (55)
S.E. Cheshire	—	79	20	10 (—)	—	117 (93)	43 (13)	170 (106)
S.W. Cheshire*	—	69	17	18 (—)	3 (2)	139 (76)	25 (6)	185 (84)
Stalybridge & Dukinfield†	14	17	9	10 (—)	—	267 (180)	8 (1)	285 (181)
	22	652	213	447 (15)	16 (12)	2276 (1502)	304 (48)	3043 (1577)

The figures in brackets indicate the number of cases in which help started prior to 1960.

† Supervisor working in Division.

* Supervisor working in part of Division.

Section X. Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances such as urinals, hot water bottles, bed-pans, feeding cups, mackintosh sheets, air rings, back rests, inhalers and sputum mugs are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done:—

(a) Number of Home Nurses at 31/12/60:—

(1) Whole-time on General Nursing	60
-----------------------------------------	----

(2) Part-time on General Nursing	133
----------------------------------------	-----

(b) Equivalent whole-time home nursing service provided in (a) (2)	80
--------------------------------------------------------------------------	----

(c) Number of houses owned by County Council	28
----------------------------------------------------	----

(d) Number of motor vehicles owned by County Council	38
------------------------------------------------------------	----

(e) Number of nurses receiving County allowance for their own cars	135
--------------------------------------------------------------------------	-----

(f) Number of telephone rentals being paid	169
--------------------------------------------------	-----

(g) Cases and visits during 1960 were as follows:

<i>Types of Cases</i>	<i>Cases</i>	<i>Visits</i>
Medical	8,253	192,474
Surgical	7,836	172,851
Infectious diseases	9	60
Tuberculosis	261	13,435
Maternal complications	78	608
Others	3,161	9,666
<i>Total</i>	19,598	389,094

cases included above who:—

(i) at the time of the first visit during the year were

(a) 65 years or over	202,974
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(b) Children under 5 years	3,180
----------------------------------	-------

(ii) had more than 24 visits during the year

3,551	225,858
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Section XI.-Handicapped Persons

General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

Statistics

Number of Registered Blind Persons in the County at 31st December

	1960
Under 5 years	9
5—16 years	27
16—21 years	11
21—40 years	85
40—50 years	100
50—65 years	256
65—70 years	154
70 years and over	843
Unknown age	—
Total	1485

Registered Blind Persons in County, aged over 16 years, employed, or otherwise, at 31st December, 1960—

Employed	{ in Workshops & Workrooms	20
	{ as Home workers	18
	{ variously	77
Not employed :		
	Under 65 years of age	330
	65 years of age and over	991
Undergoing Training		11
At School		2

Incidence of Blindness

During the year 1960 there were 394 forms B.D.8 received for the County. These were classified as follows:—

Registered as Blind.....	214
Registered as Partially Sighted	131
Not registered	49

Follow up:

(i) Number of cases registered during 1960 in respect of which para. 7 (c) of Forms B.D.8 recommended:—	Cause of Disability			
	Cataract	Glaucoma	Retrolental Fibroplasia	Others
(a) No treatment	72	14	—	83
(b) Treatment (medical, surgical or optical)	36	27	—	42
(ii) Number of cases at (i) (b) above which on follow-up action have received treatment	30	12	—	30

Ophthalmia Neonatorum

No case of Ophthalmia Neonatorum was notified during 1960.

Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A “minimum wage” principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 5 male and 3 female employees at Chester, 3 male employees at Macclesfield, 1 male employee at Oldham, 1 male employee at Stoke-on-Trent, 4 males and 1 female at Henshaws, 1 male employee at Warrington, 1 male employee at Stockport and 2 male employees at Liverpool at the end of 1960.

Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 15 at the end of 1960.

Open Industry

During 1960, grants on the Home Workers scale were made to one blind person employed in open industry.

Rehabilitation

One male and one female were maintained for varying periods during 1960 at the National Institutes Rehabilitation Centre, Oldbury Grange, Bridgnorth.

National Library for the Blind

Grant and augmentation were made in 1960 to the National Library for the Blind on behalf of 2 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1960 to the National Institute for the Blind and the North Regional Association for their respective national and regional services. An additional grant was paid to the National Institute in respect of its services in placing blind persons in open industry. Five persons were newly placed during 1960, two persons changed employment and a total of 916 visits was made by the Institute's Officers in connexion with this service.

Grants are made when necessary towards training blind persons to work with guide dogs.

Wireless Certificates

195 Certificates entitling the recipients to a free wireless licence were issued in 1960 to applicants on the register.

Social Clubs

These clubs meet weekly for about three to four hours and their activities include simple handicrafts, games, and a number of afternoon outings in the summer months. The club at Stalybridge meets on Thursday afternoons, draws persons from Stalybridge, Dukinfield and the Longdendale valley, and has an average attendance of 30. The Hyde centre meets on Monday afternoons, and approximately 27 persons from Hyde Borough attend each meeting. Cheadle and Gatley U.D. is served by a centre at Eden Place, Cheadle, which has an average attendance of 15 and meets on Thursday afternoons, receiving considerable help from the W.V.S. The Hazel Grove and Marple area was served by a club in Hazel Grove, but owing to poor attendance figures the centre has been moved to Marple where it is hoped it will be more successful.

Deaf Persons

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres, and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical, co-ordinating, and educational work. The numbers of Cheshire deaf persons on the registers of the Societies at 31st December, 1960 were as follows:

	<i>under 16 yrs.</i>	<i>16 to 64 yrs.</i>	<i>65 yrs. and over</i>	<i>Total</i>
Chester	9	85	13	107
Liverpool	—	31	16	47
Manchester	—	155	30	185
St. Vincent's (Liverpool)	—	7	—	7
Warrington	5	20	4	29
<i>Totals</i>	14	298	63	375

Other Handicapped Persons

General

The registers of handicapped persons other than the blind, deaf, and dumb are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme or under the hospital, local authority, or other aspects of the National Health Service. The names and addresses and particulars of all handicapped school leavers are sent to the Divisional Medical Officers for follow-up and such action as may be necessary. One example of help under this scheme is adaptation of premises, inside or outside, to help handicapped persons to overcome their difficulties. Assistance in handiercrafts is given when possible, with the co-operation of voluntary bodies. The most prominent example of the Council's help to handicapped persons is, of course, Wrenbury Hall Colony (see Section V).

Statistics

The numbers of persons on the above registers were as follows at 31/12/60:—

M of L class.	Definition	Children under 16		No. on Register Aged 16 — 64		Aged 65 & over		Total
		M.	F.	M.	F.	M.	F.	
A/E	Amputation	4	—	24	14	9	7	58
F	Arthritis and Rheumatism	2	2	30	84	18	144	280
G	Congenital malformations and deformities	36	22	50	78	3	6	195
H/I.	Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuberculosis) and of the skin	31	25	74	117	26	85	358
Q/T	Injuries of the head, face, neck, thorax, abdomen, pelvis or trunk. Injuries or diseases (other than tuberculosis) of the upper and lower limbs and of the spine	6	6	52	48	9	10	131
V	Organic nervous diseases—epilepsy, disseminated sclerosis, poliomyelitis, hemiplegia, sciatica, etc.	45	33	157	202	17	43	497
U/W	Neuroses, psychoses and other nervous and mental disorders not included in V	3	3	21	48	2	8	85
X	Tuberculosis (respiratory)	13	15	374	294	35	10	741
Y	Tuberculosis (non-respiratory)	15	9	55	54	2	5	140
Z	Diseases and injuries not specified above	13	9	31	37	14	27	131
Totals		168	124	868	976	135	345	2616

The Persons in the table above were distributed as follows in the County :—

Division	Number on Register			Total
	Children under 16	Aged 16 to 64 years	Aged 65 years and over	
Altrincham	6	44	23	73
Bebington	1	62	8	71
Cheadle and Wilmslow	35	93	17	145
Crewe	88	378	26	492
Deeside	24	258	29	311
Hyde	6	60	57	123
Macclesfield	56	395	173	624
Mid-Cheshire	4	107	1	112
Nantwich	—	46	1	47
N.E. Cheshire	8	66	14	88
Runcorn	—	26	3	29
Sale and Lymm	8	57	22	87
S.E. Cheshire	8	95	6	109
S.W. Cheshire	2	82	—	84
Stalybridge and Dukinfield	46	75	100	221
Totals	292	1844	480	2616

Epileptics and Spastics

The number of persons on the Registers is not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals:—

(a) Epileptics		
(i)	Children under 16	166
(ii)	Adults	107
(b) Spastics		
(i)	Children under 16	215
(ii)	Adults	61

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation and co-ordination is effected when necessary with the residential welfare and the hospital services.

Alterations to Property

Financial help is given towards the cost of adaptations inside or outside the homes of handicapped persons to enable them to overcome their difficulties. During 1960 grants were made to 27 patients, and details of the divisions concerned and the types of work carried out are given below.

<i>Division</i>	<i>No. of Cases</i>	<i>Details of Alterations</i>
Altrincham	3	(a) Provision of ramp and new gate (b) Widening entrance to outbuilding (c) Provision of handrail
Bebington	5	(a) Pavement crossing (b) ditto (c) Alterations to front door step (d) Handrail fixed in bathroom (e) Handrail fixed in passage
Cheadle and Wilmslow	2	(a) Widening of drive (b) Installation of wider bath
Crewe	3	(a) Provision of path (b) Two handrails fixed in bathroom (c) Fitting back to invalid carriage
Deeside	1	(a) Provision of concrete drive and double gates
Hyde	1	(a) Provision of flagged drive and concrete hard standing
Macclesfield	2	(a) Pavement crossing (b) Ramp to back door
Mid-Cheshire	2	(a) Pavement crossing (b) Pavement crossing and concrete path
Nantwich	—	
N.E. Cheshire	3	(a) Handrails in house, ramps to doors and drive (b) Handrails in house (c) Drive
Runcorn	1	(a) Levelling of ground and removal of tree for garage base
Sale and Lymm	—	
S.E. Cheshire	—	
S.W. Cheshire	2	(a) Alterations to drive and pavement crossing (b) Handrails in house
Stalybridge & Dukinfield	2	(a) Widening drive and pavement crossing (b) Special fittings to bath

Day Clubs or Centres for the Handicapped

Chester City Council has a small centre attended by about a dozen physically handicapped persons each week, two of whom are from the county area. Occupations of the home craft type are taught and social activities enjoyed.

A successful club is being conducted at the Macclesfield Hospital, attended by patients from the orthopaedic and geriatric departments of the hospital.

In Bebington the handicapped persons' club, started in 1959, continued to be held fortnightly and during the year 20 persons attended making 350 visits. The County Health Committee paid the fees of the occupational therapist who attended to give instruction in soft doll making and leather work which were the main activities.

Occupational Homework

The County Health Committee pays for an occupational therapist to work approximately half time in the Altrincham and Sale and Lymm divisions. A total of 35 cases received instruction during the year and 490 visits were paid. Knitting, crochet, embroidery, tapestry, marquetry, leather work and rug-making were the most frequent activities.

In the Crewe and Nantwich areas ex-patients of the Oswestry Orthopaedic Hospital received encouragement in home crafts from voluntary visitors and in other parts of the county the local British Red Cross Society members and other interested voluntary helpers supply materials for home occupations.

Cripples' Help Society, Manchester

The area of the above Society extends over a large part of the County and in 1959 agreement was reached on the services which would be provided for handicapped persons by the Society and by the County Council in order to avoid overlapping.

Particulars of all handicapped persons are exchanged by the Society and the Divisional Medical Officers, provided the persons concerned do not object, and the following table shows the number of persons on the register of the Society in each of the Divisions at the end of 1960:—

Altrincham	40	Nantwich	5
Cheadle and Wilmslow	36	North-East Cheshire	55
Crewe	12	Runcorn	3
Hyde	57	Sale and Lymm	61
Macclesfield	48	South-East Cheshire	25
Mid-Cheshire	11	Stalybridge and Dukinfield	80
Total	433		

The County functions cover:—

- (a) general visitation by health visitors
- (b) provision of domestic helps when required
- (c) provision of night sitters-in in exceptional cases only
- (d) payment for special laundering
- (e) adaptations to homes in order that handicapped persons may overcome their handicaps
- (f) provision of "aids"
- (g) in suitable cases, arrangements for convalescence as a means of obtaining rest and change of air if there is a "health" reason for this action
- (h) provision of nursing aids including, in addition to those items usually classed as normal nursing aids, special chairs for spastics, special beds, hoists, three-legged sticks, etc.

The Society:—

- (a) arranges for visitation
- (b) teaches handicrafts when necessary and in connexion with this activity is trying to organise a centre in the Sale and Altrincham district
- (c) arranges for payment to be made to handicapped persons for suitable articles made by them in connexion with handicraft training
- (d) provides special nourishment in appropriate cases
- (e) arranges holidays, convalescence and outings
- (f) provides necessitous disabled persons with clothing
- (g) provides Christmas parcels when required
- (h) lends, when appropriate, invalid chairs, walking aids, page-turning machines and other appliances

Meals on Wheels

The following information has been supplied by W.V.S. County Office, indicating the scope of the work done in providing meals in the home for old people.

	<i>Meals served per month*</i>		<i>Meals served per month*</i>
Alderley Edge	157	Marple	192
Altrincham	484	Nantwich	155
Barnton	151	Northwich	176
Bebington	746	Poynton	102
Bollington	89	Runcorn	183
Bredbury & Romiley	499	Sale	399
Congleton	300	Sandbach	154
Crewe	380	Stalybridge.....	250
Dukinfield	208	Weaverham	143
Ellesmere Port	325	Winsford	105
Hale	337	Whitegate	75
Haslington	110	Wilmslow	272
Hazel Grove	365	Wistaston	105
Hoylake	201		
Hyde	950	Total	7,786
Knutsford	173		

* The actual month was June, 1961.

Homes for Old Persons and Disabled Persons

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1960, is shewn below:—

	Homes for Old Persons Number of		Homes for Disabled Persons Number of	
	Homes	Places provided	Homes	Places provided
New Registrations, 1960	1	10	—	—
Registrations cancelled, 1960	—	—	—	—
Homes on Register, 31/12/1960	19	271	4	470
Number of Inspections made 1960	16	—	2	—

Section XII.-Sanitary Administration*

FOOD AND DRUGS ACTS, Etc.

A. MILK AND DAIRIES

The department continued its work during the year in connection with the milk supply, as a contribution towards the aim of ensuring that all milk sold within the county reaches the consumer in a clean and wholesome condition and free from disease-producing organisms.

One of the most important duties of the County Council in this respect is the licensing and supervision of milk pasteurising and sterilising plants within its "Food and Drugs" area. At the beginning of 1960, 24 pasteurising licences and 5 sterilising licences were in operation at 25 different dairies within the administrative area. During the year two pasteurising dairies ceased to process milk, the business in one case being transferred to another and larger dairy operated by the same organisation, the business in the second case being sold, owing to the ill-health of the licence holder, to one of the large dairy firms. In each case the premises and plant are no longer being used for the pasteurising of milk. Thus, at the end of the year, 22 pasteurising licences and five sterilising licences were in operation at 23 different dairies. One of the two dairies which went out of business was of moderate size and operated an H.T.S.T. plant, the other was a small family business operating two small holder type pasteurisers. The remainder of the small family concerns in the county are, so far, still carrying on business, though the tendency is showing itself throughout the country for milk processing to become concentrated in fewer and fewer large undertakings. In Cheshire the process has, up to the moment, been much slower than in many parts of the country. In this county we still have all sizes of undertaking, from the small family business to several of the largest dairies in the country. In the latter cases, the milk is often transported many miles outside Cheshire, and the department is thus instrumental in safeguarding the milk supplies of large populations outside the county area. Although the milk processed in the licensed dairies may be subject to sampling and examination by any of the authorities in whose area it is sold, we receive very few notifications of unsatisfactory samples, which confirms the excellent records obtained by our own sampling and inspections.

The department maintains a close check on the licensed dairies in two ways. Samples of processed milk are collected three times a week from all the plants, and occasionally at week-ends, and these are examined by tests which show whether the milk has been adequately heat treated and also whether the milk is of a satisfactory standard of cleanliness. Washed bottles are also regularly collected and brought to the laboratory for examination to disclose the efficiency of the bottle-washing process in the dairy. In addition to this the County Health Inspector pays routine visits to the dairies from time to time and checks not only the processing but also the condition of the premises and the general maintenance of good standards of hygiene; this work is very

* This part of the report includes the work carried out by the County Health Inspector's Section.

neccessary. It is found that a visit, especially to the smaller dairies, will often forestall a sample failure by detecting an incipient fault. But even in dairies where the sampling record is excellent and failures are exceedingly rare, it is found in many cases unless the Inspector can pay a visit from time to time, the general hygienic standard of the premises tends to deteriorate. In other words, sampling of the milk by itself, however frequent, is not sufficient.

In the case of a milk sample failing to pass the prescribed tests and especially in the case of phosphatase failures, the County Health Inspector endeavours to make an immediate inspection to try to ascertain the cause of failure. A phosphatase failure is regarded as a serious lapse on the part of the licensee holder, but it seems impossible under present circumstances completely to eliminate such failures. The majority of the failures occur at the smaller dairies where standards of equipment and supervision must often be lower than at the large commercial dairies. The proportion of failures is, of course, very low when one considers the large number of samples collected. In this respect 1960 stood out as the best year since the County Council took over these duties.

From the figures given it will be seen that there were thirteen phosphatase failures. (The phosphatase test is the official test for the correct heat treatment of pasteurised milk). This represents a failure rate of 0.25% of the 5,236 samples examined during the year by this test, as against 0.37% in 1959, 0.43% in 1958, and 0.66% in 1957. Of the thirteen samples which failed, eight were samples collected from the licensed dairies and five from schools (see separate report on Milk in Schools Scheme). One of the phosphatase failures was on milk supplied by a large dairy in one of the county boroughs in the county, and this was referred to the Health Department of that authority for investigation. The remainder were investigated by the County Health Inspector. All the failures were from dairies operating holder-type plant, *i.e.* from the smaller dairies.

A total of 4,256 washed bottles was examined. These are collected by the sampling officers at the dairies at the same time as milk samples are collected. As will be seen from the table given, the majority were found to be satisfactorily cleansed, but a certain number fell into the "fairly satisfactory" or "unsatisfactory" categories. In these cases, appropriate action was taken to correct inadequacies of plant or methods. Although these examinations and standards have no statutory authority, they are a most useful means of checking the efficiency of bottle washing at the dairies concerned. It is found that even a modern bottle washing machine does not necessarily produce clean and commercially sterile bottles.

Testing of a certain number of milk samples for the presence of hypochlorite residuals was carried out during the year, but no positive indications were obtained.

County Public Health Laboratory

The County Council's milk laboratory closed down on 24th November, 1960, after functioning for many years as a part of the County Health Department. From that date the work of examining milk samples, washed bottles, etc. carried out by the County Laboratory was transferred to the new Laboratory opened by the Public Health Medical Laboratory Service adjacent to the Chester City Hospital in Hooke Lane, and the two female laboratory assistants employed by the County Health Department were transferred to the new laboratory, the chief laboratory technician having retired. Thus all milk and associated examinations are now carried out by the Public Health Laboratory Service, which is directed on behalf of the Ministry of Health. The Chester laboratory is used for samples from all parts of Cheshire except the north-east, samples from this area being dealt with by the Public Health Laboratory at the Monsall Hospital, Manchester.

The figures given in the tables at the end of this report combine work done by the County Laboratory and the two Public Health Laboratories.

Statistics.

Total number of examinations made during the year 1960
(excluding biological work)—

	<i>Pos.</i>	<i>Neg.</i>	<i>Total</i>
Milks :			
Cultures for Coliform bacilli	16	3376	3392
	<i>Failed</i>	<i>Passed</i>	<i>Total</i>
Aschaffenburg and Mullen Test	13	5223	5236
(Pasteurised milks)			
Phosphatase test (Kay-Graham)	13	5223	5236
(Pasteurised milks)			
Clot on boiling test	—	799	799
Reductase test (methylene blue)	5	5188	5193
Turbidity test (sterilised milks)	—	872	872
T.T. Raw Milk (methylene blue)	—	35	35
Plate counts	—	1247	1247
Hypochlorites Test in milks	—	522	522
Washed Bottles (two examinations each prior to 24/11/60)		8313	8313
Total examinations made of all specimens			30845

Milk Specimens examined 1951-60

Year	Clot on Boiling Test	Reductase Test	Coliform Test	Pasteurised Milk		Plate Count	Turbidity Test for Sterilised Milk	Other Tests	Total Examinations
				Phosphatase Test (Kay-Graham)	Aschaffenburg Test				
1951	3451	3443	3238	3454	1459	—	134	—	15179
1952	3924	3830	3858	3858	3858	1089	156	—	20573
1953	4304	3929	3948	3948	3948	1322	356	—	21755
1954	4627	4100	4105	4105	4105	1400	522	—	22964
1955	4976	4197	3312	4293	4293	860	624	—	22555
1956	4988	4220	4235	4235	4235	1430	753	56	24152
1957	4391	4347	4370	4370	4370	1528	889	362	24627
1958	903	5201	5219	5161	5161	2573	903	58	25179
1959	907	5599	5652	5587	5587	3129	907	65	27433
1960	799	5193	3392	5236	5236	1247	872	35	22010

REPORT ON SAMPLES OF WASHED BOTTLES COLLECTED
FROM MILK PROCESSING DAIRIES

Year	Satisfactory	Fairly Satisfactory	Unsatisfactory	Coliform Bacilli Negative	Coliform Bacilli Positive	Total No. of Examinations made
1953 March to December (incl)	3,377	37	76	3,486	4	6,980
1954	4,769	23	40	4,830	2	9,664
1955	2,911	37	15	2,962	1	5,926*
1956	4,609	59	53	4,717	4	9,442
1957	4,506	61	61	4,629	1	9,260
1958	4,393	65	129	4,586	1	9,174
1959	4,384	72	96	4,552	—	9,104
1960	4,107	74	75	4,057	—	8,313

* It was not possible to carry out any of these examinations between mid-June and mid-October due to a breakdown of the incubator in the laboratory.

Milk in Schools Scheme

All milk supplies under this scheme are subject to the approval of the County Medical Officer, and the County Health Department supervises all supplies mainly by means of systematic sampling.

Any new supply proposed for any particular school is first referred by the Director of Education to the Health Department for approval.

So far as the approval of particular sources is concerned, the first choice is a supply of pasteurised milk. If this is not available, a supply of tuberculin-tested (raw) milk is accepted. As will be seen from the table at the end of this section, at the end of the year, only eight of the 669 schools in the county were being supplied with raw tuberculin-tested milk, the whole of the remainder having a supply of pasteurised milk.

No school in the county was without a supply of liquid milk at any time during the year.

During 1960, sampling of all the school milk supplies throughout the County continued, all samples being collected at the schools themselves. A total of 1,703 samples was collected, as compared with 1,886 in 1959. All the schools in the administrative county are visited with the exception of the thirty schools in the area of the Crewe Borough Council. Here the Borough Health Department carry out regular school milk sampling by arrangement with the County Health Department and notify all results. During 1960, 41 samples were collected at the Crewe Schools. All were satisfactory on the methylene blue test. Only 34 of the samples could be examined by the phosphatase test owing to delay in reaching the laboratory, but all 34 were satisfactory.

Of the 1,670 samples of pasteurised milk collected by the County Health Department, three samples failed on the methylene blue test (for cleanliness and keeping quality), and five on the phosphatase test (for adequate pasteurisation).

Immediate action in case of sample failures is taken by the County Health Inspector.

The three methylene blue failures were on milk from three different dairies, and after appropriate action no further failures occurred. The five phosphatase failures concerned three dairies, one of which was situated in the area of an adjoining County Borough, and this case was referred to the Health Department of that authority for appropriate action. Two of the failures were from a dairy which had been giving trouble towards the end of 1959 (see report for that year) and which continued to give the Department concern in the early months of 1960.

A further prosecution was taken in May, 1960, and the firm were fined £40. At this stage it was proposed to terminate the school milk contract, but at the end of May the business was sold to a large dairy combine, and the premises have not been used as a dairy from that date. The remaining two phosphatase failures were on samples taken on the same day from two schools supplied by the same firm. The milk was processed on Sunday and sampled on Monday. It was practically raw milk, and although investigations failed to reveal any cause for such failures, it was obvious that something very extraordinary had occurred. A severe warning was given to the dairy concerned, and no further trouble was experienced.

In addition 33 samples of Tuberculin-tested (raw) milk were collected and none failed the methylene blue test. These supplies are given special attention by way of biological examination in view of the fact that they are raw milks. During the year twenty-five samples were examined by the guinea-pig test for the presence of the organisms of tuberculosis and abortus fever, but in no case were any of these organisms detected.

The efficiency of the washing of school milk bottles at the dairies licensed by the County Council was checked by the collection of 180 washed school milk bottles from these dairies when the sampling officers were visiting for the purpose of other sampling under the Milk and Dairies Regulations. No coliform bacilli were found in any of the bottles. On the colony count test (a test for the bacteriological cleanliness of the bottles) 175 were found to be satisfactory, two fairly satisfactory, and three unsatisfactory. Appropriate action was taken in the latter cases.

It is thus seen that a considerable amount of work is carried out to try to ensure that each day while the schools are open, the whole of the 110,000 or so pupils who receive school milk receive an article which is clean and free from all pathogenic organisms and is delivered in clean, undamaged containers.

It is inevitable that the occasional complaint arises. One instance is given above of a dairy which caused the Department considerable concern in the first half of the year, but fortunately this problem has now disappeared. Several other incidents occurred during the year. In certain cases glass and other foreign bodies were concerned, and these complaints were dealt with by the County Weights and Measures Department. Another case, in which a dirty bottle was concerned, was dealt with jointly by the local health department and the County Health Department, and the supplier concerned was given a severe warning.

Towards the end of the year, some concern was felt regarding supplies of school milk to a number of schools in the administrative county from a pasteurising establishment in the area of an adjoining County Borough Council. Several incidents occurred, and after warnings, court proceedings were instituted by the Food and Drugs authority concerned (not the County Council in this case) and the firm were fined £20 in each of two cases of dirty school milk bottles and £50 for supplying a bottle of school milk containing a fly. The County Health Inspector then visited the dairy in question by arrangement with the County Borough Council concerned, made an inspection, and interviewed the Managing Director, after which a very strong warning was issued by the Clerk of the County Council to the Dairy Company that any further complaints could only lead to cancellation of the school milk contract. Since that time no further complaints of a similar nature have been received concerning this Dairy. Incidentally, the Managing Director of this Dairy Company, in his reply to the Clerk, pointed out that in many cases bottles were returned from the schools in a very dirty condition.

It is true, of course, that in the majority of cases the bottles are returned from schools in reasonable condition so that they can be satisfactorily washed by the normal dairy procedures but cases do occur where bottles are returned in a bad condition.

In this connection, the Department never ceases to appeal to all concerned to see that milk bottles are completely emptied, all caps and straws removed, and the bottles returned to the dairy immediately. The dairies have the heavy legal responsibility for seeing that every bottle is clean before it is refilled with milk, and under these circumstances it is felt that the schools should do what they can to see that the task of the dairies is not made unnecessarily difficult.

SCHOOL MILK SAMPLES AND EXAMINATIONS, 1960.

	Total Samples Collected	Phosphatase Test		Methylene Blue Test*	
		Passed	Failed	Passed	Failed
Pasteurised Tuberculin-tested (raw)	1672	1667	5	1597	3
	33	—	—	31	—
	1705	1667	5	1628	3

*The Methylene Blue test was void in 74 cases owing to high atmospheric shade temperature.

At the end of 1960, the position in the county regarding school milk supplies could be summarised as follows:—

Type of Milk	Schools sampled by Cheshire C.C.		Schools sampled by Crewe M.B.C.		No. of Children † supplied	
	No. of different supplies of milk	No. of schools supplied	No. of different supplies of milk	No. of schools supplied	Total	As % of Total
Pasteurised	28	631*	1	30†	110,250	99·80
Tuberculin-tested (raw).	8	8§	—	—	226	0·20
TOTALS:	36	639	1	30	110,476	—

† Figures obtained from a census taken on a selected day in October, 1960.

† Includes 1 non-maintained School.

* Includes 103 non-maintained Schools.

§ Includes 3 non-maintained Schools.

(The milk in Schools Scheme has applied to non-maintained schools since 1st September, 1956, and all children attending both maintained and non-maintained Schools are entitled to one-third of a pint of milk free daily).

Sampling of Milk for the Detection of Tubercle Bacilli and *Brucella Abortus* Organisms

A specific duty is laid upon county councils by the Food and Drugs Act, 1955, Section 31, to administer provisions designed to prevent the sale of tuberculous milk and the milk from cows suffering from any infection of the udder likely to convey disease.

For some years it has been the practice to collect bulk samples of milk from un-designated farms throughout the county, and to submit these samples to biological examination by the Public Health Laboratory Service so as to detect the presence of the organisms of tuberculosis. Over the years the number of undesignated farms has gradually decreased, and the number of positive samples has also decreased. Nevertheless, the work done has been most effective in detecting infected herds and having the responsible cows found and slaughtered.

However, as from 1st March, 1960, Cheshire became a compulsory eradication area under the Attested Herds Scheme, so that the remaining undesignated herds became subject to compulsory testing and the slaughtering of reactors. Also the whole of Cheshire is subject to the operation of Specified Areas Orders, so that in the whole county only the specially-designated milks may now be sold (*i.e.* Pasteurised, Sterilised and Tuberculin-tested).

It was thus considered an appropriate time to review the powers and duties of the County Council under the above-mentioned Section of the Food and Drugs Act, and a conference was held with the appropriate officers of the Ministry of Agriculture, Fisheries and Food.

It was agreed that the essential thing so far as biological testing was concerned, was to try to ensure the safety of the public in the case of milk sold raw under the special designation "Tuberculin-tested". The other specially designated milks on sale are of course made safe from the point of view of pathogenic organisms by the pasteurisation and sterilisation processes, which again are under the licensing and control of the County Health Department.

It was accordingly decided to sample all supplies of Tuberculin-tested milk sold raw to the public, and to examine the samples biologically for the presence of the organisms of tuberculosis and brucellosis.

There are approximately 400 herds in the county from which milk is sold raw to the public. By the end of the year, 563 samples had been collected, and 43 of these samples were found to contain the organisms of *brucella abortus* (7.6%). *Brucella abortus* causes contagious abortion in cattle and is the organism responsible for undulant fever in man. Fortunately, although infection can occur from the consumpt-

ion of quite small quantities of infected cream or milk, it seems that the general resistance of the human body to brucella is usually high, and this probably accounts for the fact that comparatively few cases of undulant fever are reported. However, undulant fever is not a notifiable disease, and the symptoms could easily be mistaken for those of other illnesses, so that it seems quite likely that considerably more cases actually occur than are reported.

In the case of samples found to contain evidence of brucella infection, the information is immediately conveyed to the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food, and to the Divisional Medical Officer. The Veterinary Officer visits each producer concerned and discusses the question of the eradication of the disease from the herd. Two lines of attacks are suggested:— (1) Calfhood vaccination with vaccine S.19 and (2) Individual cow sampling so that the infected animals can be found and isolated. Unfortunately there are no powers at present by which infected animals can be compulsorily dealt with, and they can thus be sold in the open market and carry the infection elsewhere.

The Divisional Medical Officers keep in touch with the cases to see that milk from infected animals is not sold raw but is sent away for heat treatment.

It is understood that the Ministry of Agriculture, Fisheries and Food have been conducting a countrywide survey of this problem through their veterinary officers with the aim of ascertaining what percentage of the herds of the producer-retailers of the country are infected with brucella abortus, so that they will be in the position of assessing the cost of a programme to deal with the matter. It is hoped from this, that some positive plan will be evolved for the eradication of this disease in the same way that tuberculosis has been tackled, entailing, no doubt, measures of slaughter and compensation. In the meantime, it must be made quite clear to the public that tuberculin-tested milk is not necessarily safe milk, and indeed many persons are being infected by the consumption of such milk. Efficient heat treatment is still the only guarantee that milk is free from the organisms of brucella as well as many other pathogenic micro-organisms, and any person consuming raw milk or raw cream even on a single occasion, may contract this disease of undulant fever, which though not normally a fatal disease, can at the same time bring ill-health over a period of months or even years.

None of the samples submitted to biological test were found to contain evidence of the organisms of tuberculosis. This is as expected, though "break downs" in Tuberculin-tested herds do occur from time to time and it is therefore well for these checks to be made, especially in the case of these "producer-retailer" milks, where there is no other safeguard than the tuberculin-testing.

Milk (Special Designation) Regulations, 1960

These Regulations were issued in the latter part of 1960, and replaced and consolidated the Milk (Special Designation) (Raw Milk) Regulations, 1949 to 1954, and the Milk (Special Designation) (Pasteurised and Sterilised Milk) Regulations, 1949 to 1953. The main changes were in connection with the licensing of milk dealers which, from 1st January 1961, became the responsibility of the County Council in their "Food and Drugs Area", instead of County District Councils. In other words, milk and dairies administration was changed so that licensing is now carried out by only two authorities—the Ministry of Agriculture, Fisheries and Food for milk *production* licences, and the Food and Drugs Authority for processing and distribution licences. Thus, for the area of the county for which the County Council is Food and Drugs authority, the County Council is now responsible for licensing all dealers in milk apart from producers.

As this work involved the issue of about 1,400 additional milk licences, with consequential inspections and sampling, it became necessary to carry out a great deal of preparatory work during the last few weeks of the year 1960. The report for 1961 will contain further information regarding this work, which of course has meant a complete re-organisation of the Department's milk duties.

B. FOOD AND DRUGS.

The Chief Inspector of Weights and Measures, Food and Drugs, etc., (Mr. Howard Hughes) reports as follows on the work undertaken by his Department in relation to the administration of the Food and Drugs Act, 1955 as it concerns the sampling and possible adulteration of food and drugs sold for human consumption.

The County Council is responsible for the administration of the Act and Regulations in the whole of the County with the exception of the four County Boroughs and the Municipal Boroughs of Crewe, Bebington and Sale. Samples have been procured on a basis of approximately three per thousand of population, a figure which is considered reasonable by the Ministry of Agriculture, Fisheries and Food. Such samples, whether taken formally or informally, have been submitted to the Public Analyst for the County (J. Graham Sherratt, Esq., B.Sc., F.R.I.C.) for analysis.

During the year 2,129 samples of Food and Drugs have been analysed and of this number 94 were adversely reported upon. The following table indicates the type of samples submitted for analysis together with details of those reported as not up to standard.

<i>Article</i>	<i>Number Analysed</i>	<i>Number reported against</i>
Borax B.P.	4	1
Bread	2	1
Currants	2	1
Creamed Sago Pudding	1	1
Chocolate Creme Coffee and Brandy Bar	2	2
Chocolate Creme Mocha Rum Bar	1	1
Drinking Chocolate	1	1
Eucalyptus Oil B.P.	5	1
Flour S.R.	11	1
Glauber Salts	2	1
Ham and Tongue	1	1
Indian Brandee	1	1
Ice Cream	20	2
Mercury Ointment B.P.	1	1
Minced Meat Loaf	1	1
Milk	1280	67
Quinine Ammon., Tinc. of	3	1
Rum and Peppermint Cremes	1	1
Salmon, Potted	2	1
Stuffed Pork Roll—Tinned	1	1
Sherry Trifle	1	1
Sulphur Lozenges	1	1
Sausage, Pork	15	3
Sausage, Pork and Beef	3	1
B.P. Official preparations, simple household medicaments, etc.,	127	—
Miscellaneous groceries and unclassified articles	640	—
	2129	94

It will be observed that of the 1,280 samples of milk analysed, 67 were returned as adulterated or sub-standard, but of the latter 45 were reported as naturally abnormal, the milk being as it was produced by the cow. Thus, whilst 67 samples of milk were found to be below the presumed standard laid down by the Sale of Milk Regulations 1939, only 4 samples had been adulterated by water and only 18 were deficient in fat.

Comparative figures for recent years are as follows:—

<i>Milk Samples.</i>	1958	1959	1960
No. returned as sub-standard	85	133	67
No. returned as containing extraneous water	12	26	4
No. deficient in Solids-not-fat (Natural abnormality)	56	85	45
No. deficient in fat	13	18	18

It will be noted that the number of milk samples reported as sub-standard was approximately half of the number of those of the previous year. This is a considerable improvement and reflects credit on the producers and is to the advantage of the consumer.

Owing to the fact that milk, being a basic food, is easily adulterated either by the addition of water or the abstraction of fat, about 60% of all samples procured were milk. This percentage is one which has been accepted for many years as being reasonable and adequate.

Having regard to the modern practice by Dairy Companies of mixing milk produced by different suppliers, samples have been taken in transit between the place of production and the bottling plants and it is pleasing to note that in this connection not one single case of deliberate adulteration was reported.

In two cases, however, it was found necessary to institute proceedings against producers of Channel Islands milk as analysis disclosed deficiencies in milk fat of 20% and 10%. The defendants concerned in these cases were fined £5 and £11 8s. 0d. respectively. It will be appreciated that the standard prescribed by the Milk and Dairies (Channel Islands and South Devon Milk) Regulations, 1956, is an absolute standard of 4% milk fat and the price charged is higher than that for other milk. In the cases referred to the deficiencies in milk fat were due to inadequate mixing after the milk had been left standing in bulk containers immediately prior to bottling.

Of 849 samples of Food and Drugs other than milk which were submitted for analysis, 27 were reported as sub-standard or did not conform in some other respect with Regulations made under the Food and Drugs Act. Details of each of these samples together with a statement of the action taken is set out below:—

- 1 **Borax B.P.** Did not conform to the standard of the British Pharmacopoeia. Manufacturer cautioned.
- 2 **Pork and Beef Sausage.** Contained 150 parts per million of undeclared sulphur dioxide preservative. Seller Cautioned.
- 3 **Mercury Ointment B.P.** Incorrectly labelled. Seller cautioned.
- 4 **Quinine Ammon., Tinc. of.** Incorrectly labelled. Seller cautioned.
- 5 **Minced Meat Loaf.** The meat was contaminated with 2,600 p.p.m. of iron from the rusty tin. Seller cautioned.
- 6 **Potted Salmon.** Salmon paste incorrectly described as potted salmon. Seller cautioned.
- 7 **Indian Brandee.** 45% deficient in spirit of chloroform. Manufacturer cautioned.

- 8 **Stuffed Pork Roll. Tinned.** This was Stuffed Pork and Beef Roll wrongly described as Stuffed Pork Roll. Manufacturer cautioned.
- 9 **Pork Sausage.** Deficient in lean meat and contained an excess of fat. Manufacturer cautioned.
- 10 **Eucalyptus Oil, B.P.** Did not conform to the standard of the British Pharmacopoeia. Manufacturer cautioned.
- 11 **Ice Cream.** 46% deficient in fat (informal sample). See No. 12.
- 12 **Ice Cream.** 44% deficient in fat (formal sample from same source as No. 11). Seller fined £10.
- 13 **Sherry Trifle.** Did not conform to the Labelling of Food Order re-positive declaration of ingredients. Manufacturer cautioned.
- 14 **Glauber Salts.** Did not conform to the Standard of the British Pharmacopoeia. Manufacturer cautioned.
- 15 **Drinking Chocolate.** Small unidentified specks appeared on the surface of the hot chocolate. Manufacturer advised.
- 16 **Currants.** Infested with larvae of insects. Supplier cautioned.
- 17 **Creamed Sago Pudding.** Incorrectly labelled. Ingredients were not listed in order of highest concentration. Manufacturer cautioned.
- 18 **Self-Raising Flour.** Contained ten times the normal quantity of raising agents which made the flour unsuitable for use. Supplier cautioned.
- 19 **Chocolate Creme Coffee and Brandy Bar.** Incorrectly labelled, the sample was devoid of brandy. Manufacturer cautioned.
- 20 **Chocolate Creme Mocha Rum Bar.** Incorrectly labelled, the sample was devoid of rum. Manufacturer cautioned.
- 21 **Sulphur Lozenges.** Incorrectly labelled. Manufacturer advised.
- 22 **Sausage Pork.** Contained 260 p.p.m. undeclared sulphur dioxide preservative. Seller fined £4 10s. 0d.
- 23 **Sausage Pork.** Contained 280 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 24 **Chocolate Creme Coffee and Brandy Bar.** Incorrectly labelled, the sample was devoid of brandy. Manufacturer cautioned.

- 25 **Bread.** Heavily contaminated with vegetable fibres from sacking. Manufacturer fined £12 10s. 0d.
- 26 **Ham and Tongue.** Falsely described, as the sample contained cereal and added water. Manufacturer cautioned.
- 27 **Rum and Peppermint Cremes (non-alcoholic).** Wrongly described as the sample did not contain rum. Manufacturer advised.

Complaints received from householders have shown a marked increase during the period reviewed from which it appears that members of the public are taking greater interest in their purchases. Most of the complaints concerned food which had been found contaminated with some objectionable foreign matter and in 15 instances it was found necessary to institute legal proceedings against the traders concerned. A brief summary of the facts and the result of the action taken in these cases are given below:—

One prosecution concerned sweets, one of which was found to contain a sharp piece of metal discovered by a small boy who was about to share the sweet with his sister. It will of course be appreciated that this object could have caused injury to a small child had it been swallowed. The manufacturers responsible in this case were fined a sum of £20.

Pieces of rusty metal, a length of wire and a large nut and bolt found by householders in loaves of bread and cake were also reasons for court proceedings being taken in 4 other instances. Fines imposed in these cases amount to £47.

Glass splinters in foodstuffs are also a common reason for complaint, and every care is taken in investigating cases of this nature. Although several letters of caution were issued, legal proceedings were advised in cases of grapefruit squash, doughnuts and marmalade, each of which contained dangerous pieces of broken glass. All these prosecutions were successful, and fines totalling £42 10s. 0d. were imposed by the magistrates.

Head teachers have also referred to the Department some 20 instances of glass splinters which they alleged had been found in bottles of milk delivered to the various schools for consumption by the children. After careful consideration of the facts submitted in each case, legal proceedings were taken against two of the suppliers, one of whom was subsequently fined £5. In a second case the Magistrate held that the defendants had taken reasonable precautions in connection with the bottling and handling of the milk and they therefore dismissed the case. In all other cases where legal proceedings were not contemplated, the suppliers were advised of the complaints and in several instances letters of caution were issued.

Maggots found in ground almonds and chocolate were considered the responsibility of a retailer owing to the fact that the goods had been in his possession for a considerable length of time. Instructions to examine the stock at regular intervals had been ignored and in view of this legal proceedings were advised. Convictions were obtained in both cases, fines totalling £6 6s. 0d. being imposed by the Magistrates.

A mass of sacking which had been baked into a loaf of bread and a dirty bandage which had been found in another loaf were other reasons for complaints by householders. As both incidents were due to carelessness in the bakeries concerned, the manufacturers were prosecuted and fined £12 10s. 0d., and £2 respectively.

Flies in foodstuffs are of quite common occurrence and in the case of beef sausages in which a large bluebottle was found impregnated, legal action was considered necessary. In the subsequent proceedings the manufacturer was fined £10.

Most of the foodstuffs mentioned above were not referred to the Public Analyst because of the obvious nature of the contamination. No certificates of analysis were required and no details will therefore appear in the Analyst's returns.

In conclusion it is interesting to note that householders are becoming more and more critical of their purchases of foodstuffs, and in many cases they do not hesitate to contact the Department in case of complaint. Despite the fact that it has been necessary to report some of the more unpleasant details concerned with the sale of food and drugs, generally speaking the quality of food manufactured and sold for human consumption as evidenced from samples taken and analysed during the year is still satisfactory.

C. SLAUGHTERHOUSES.

It is felt that some comment should be made in this report on the important step forward that is now being achieved in connection with the slaughter of livestock for human consumption, in that, for the first time, all slaughterhouses in the country are being brought up to a national standard of construction and equipment, and any slaughterhouses which cannot be so brought up to standard, will no longer be licensed.

In 1938, 11,500 slaughterhouses were in use in England and Wales. During the war, and until 1954 all slaughtering was under the control of the Ministry of Food, and only 482 slaughterhouses were used. On 3rd July 1954, meat rationing ended, and at the same time the Ministry of Food ceased slaughtering fatstock, and private slaughtering recommenced. Thus the licensing and control of slaughterhouses suddenly reverted to local authorities, and many private slaughterhouses came back into use, and in addition some new slaughterhouses have been built.

On 1st January 1959, the Slaughterhouses (Hygiene) Regulations, 1958, and the Slaughter of Animals (Prevention of Cruelty) Regulations, 1958, came into operation, and these for the first time laid down detailed standards of construction and equipment. They applied to new slaughterhouses immediately, but to existing slaughterhouses as from an "appointed day" to be laid down by the Minister for each district.

Under the Slaughterhouses Act, 1958, every local authority was required to give exhaustive consideration to the existing and probable future requirements of their district for slaughtering facilities, and the slaughtering facilities likely to be available to meet those requirements, and to submit to the Minister a Report setting out their findings.

All the local authorities submitted their Reports before the end of 1960, and these show that only one slaughterhouse already complied fully with the Regulations. Eighty-two slaughterhouses in the county were expected to comply with the regulations by the "appointed day", and twenty-one slaughterhouses were not expected to comply, and would thus pass out of use.

A further twenty-five slaughterhouses not in use, but for which licenses were in operation or had been in operation during the previous twelve months were also expected to pass permanently out of use as slaughterhouses. There were sixteen applications outstanding for new licences. Some of these were for new premises to replace other premises passing out of use, and it was expected that almost all of the applications would be granted.

As a result of the review of facilities all the authorities in the county considered the existing facilities, together with any new slaughterhouses proposed to be provided in the immediate future, would be adequate for the needs of their districts in the foreseeable future, and no authority considered it necessary to recommend that a new public slaughterhouse should be provided in their area.

Dates recommended by the authorities as the "appointed day" for their district ranged from 1st April 1960, to 31st December, 1962.

Ten authorities in the county at present have no slaughterhouses functioning in their areas. On the other hand about half of the slaughterhouses in the county are situated in nine rural districts, and in some cases this imposes quite a burden upon the district public health inspectors in maintaining 100% inspection of animals killed for food in their districts.

WATER SUPPLIES, SEWERAGE AND SEWERAGE DISPOSAL

Work on many schemes was in progress during 1960, and it can be said that in general the authorities responsible for the provision of these services in Cheshire are anxious to provide and maintain adequate facilities in all parts of their areas.

Regrouping of Water Undertakings

With regard to water supplies the county is well covered by a network of supply mains, and it is now only the most scattered and isolated communities that have to rely on private sources for their water supplies.

As part of the programme for improving this service throughout the country, re-grouping of water undertakings to secure the most effective use of the water resources of the country and to provide a reliable and economic service, continued.

On 1st April, 1960, the order creating the Macclesfield District Water Board came into operation. This Undertaking combined the Undertakings of the Boroughs of Congleton and Macclesfield, the Urban District of Bollington and the Rural District of Macclesfield as well as part of the Stockport County Borough Undertaking (covering certain parishes in the Macclesfield Rural District).

During the year, negotiations were proceeding regarding the amalgamation of the Tarvin R.D.C.'s undertaking with that of the Mid and South-East Cheshire Water Board; the transfer of the Water Undertakings of the Bucklow R.D.C. and the Knutsford Light and Water Company to the Manchester Corporation's Undertaking; the amalgamation of the Water Undertakings in the Wirral (West Cheshire Water Board, County Boroughs of Birkenhead and Wallasey, the Urban Districts of Hoylake and Neston) and the transfer of the Lymm U.D.C.'s undertaking to the Warrington County Borough Council.

Also, and arising mainly because of the severe shortage of water experienced in the area of the Stockport Water Undertaking during the drought of 1959, a number of meetings were held during 1960 by the local authorities in the area of supply of the Undertaking to discuss the situation and to consider the need for the formation of a Joint Board upon which all the authorities concerned could have representation. The County Council was represented at all the meetings by invitation, and took part in the discussions and formulation of proposals. This matter will be referred to again in the Report for the year 1961.

Sewerage and Sewage Disposal

Many schemes are proceeding, and many others are in course of preparation or are passing through the various stages between preparation and commencement of work on the site.

It has been considered appropriate to include brief notes of the approximate position at the end of the year with regard to these services in all the districts of the administrative county. These notes are necessarily restricted to generalisations, but give a broad idea of the situation in the county and the way in which the authorities are facing up to their responsibilities in this matter.

It will also be noted that although conditions in several areas are far from satisfactory, in all such cases plans are being or have been formulated to deal with the situation, and it is hoped that the authorities concerned will press on without undue delay so that conditions which, in some cases, have continued for a number of years, may be eradicated in the not too distant future.

Municipal Boroughs

Altrincham—New disposal works recently completed. These receive sewage from whole of Borough except portion in south-west (5,000 population) which drains to Dunham Massey Works of Bucklow R.D.C.

Sewerage schemes also completed or in progress to remedy flooding in various parts of district, and to provide an adequate system.

Bebington—Sewage from whole area except certain villages in rural area on west of district, is discharged into the River Mersey. The authority have a comprehensive programme of sewerage works by which the whole area will be adequately dealt with. The Dibbin Valley Scheme (£370,000 approx.) is nearing completion. The Clatter Valley Scheme (£37,000) approximately is twenty per cent completed. The Bromborough Relief Sewerage Scheme, to remedy serious flooding in the Bromborough area and to enable the embargo on building in the area to be lifted and development to continue, is in the final stages of preparation (cost in the region of £350,000). The Eastham Relief Sewerage Scheme, also to remedy flooding, is in the early stages of preparation (estimated cost around £220,000). Other minor schemes are also being carried out. A scheme for Raby Village has just been submitted to the County Council. Other villages are already served.

Congleton—Extensions to sewage disposal works (£140,000), and sewerage scheme for West Heath development area (£104,000) recently completed. Position now believed to be generally satisfactory.

Crewe—The existing sewage disposal works are badly overloaded and causing pollution of the Valley Brook (a tributary of the River Weaver). It is proposed to build a complete new works further downstream (estimated cost, 1954, £678,000). It is believed this scheme is in the final stages of preparation.

A number of sewerage schemes are being carried out for the relief of flooding in the Borough and to provide for new development.

Dukinfield—Joint sewage disposal works with Stalybridge. Conditions regarding sewerage and sewage disposal believed to be generally satisfactory.

Ellesmere Port—Large scale development taking place in the area, including overspill from Liverpool. Three main drainage areas:— (1) Old part of town near canal drains to the "Town" sewage works which are becoming overloaded. (2) Whitby and Stanney areas drain to works at Little Stanney. (3) Overpool, Great Sutton and Little Sutton areas drain to a combined sewer down the Rivaere Valley and thence by a syphon under the Ship Canal into the River Mersey. This sewer is in poor shape and the syphon is loaded to capacity. The large scale development affects areas (2) and (3). It is proposed to extend the Little Stanney Works to deal with (2), but the method of dealing with (3) has caused some difficulty. It now seems likely that the Borough will propose to pump flows over 6 x D.W.F. from the Rivacre Valley to the Town Works, at which flows from 3 to 6 x D.W.F. would be given partial treatment and then discharged to the River. Flows up to 3 x D.W.F. would be pumped to the Little Stanney Works which would be enlarged further than originally anticipated to deal with practically the whole sewage of the town, plus further flows expected from the Vauxhall development and possibly sewage from the Oil Industry.

Hyde—Overspill population of approximately 9,000 persons (from Manchester) is coming to Hyde, and work has commenced on roads and sewers on the overspill site. The Council have practically completed a sewerage scheme costing approximately £300,000 to provide for the new development, to prevent flooding, and to replace sewers which were unsatisfactory in condition or capacity. The sewage disposal works are also being enlarged and improved to deal with the increased flows, at an estimated cost of £184,000. This work is about 50% completed.

Macclesfield—Whole of Borough drains to disposal works near Prestbury in the Macclesfield Rural District. These works also serve certain parishes in the Rural District, and are to receive the sewage from Bollington Urban District in the next five years, also from Langley in the Rural District, and from works proposed to be erected by the I.C.I. in Macclesfield. There may also be substantial overspill from Manchester. The works now serve about 40,000 population. In five years it may be 52/53,000, and in fifteen years possibly 63,000 or 68,000, depending on the extent of reception of Manchester Overspill.

Corporation have prepared outline scheme for extension of works to deal with this development. However, proposal was to extend nearer to village of Prestbury and provoked much local opposition. A public local inquiry was held and Minister has now decided that the works must be extended away from the village. Presumably the

Borough Council will now proceed at full speed to prepare a scheme accordingly. The Corporation also have in hand a scheme for an outfall sewer to serve the Overspill housing and other minor sewerage schemes.

Sale—A large scheme of sewerage and sewage disposal, estimated to cost £962,000 is nearing completion. The sewage disposal works receive drainage from the Brooklands and Baguley districts of the City of Manchester, which is expected ultimately to total 8,000 population. The works have been altered and extended to deal with an ultimate total population of 65,000.

The sewerage works have been carried out to remedy flooding and the inadequacy of some of the main sewers, and to provide a system which will deal satisfactorily with the drainage of the Borough as it has developed over the years.

Stalybridge—Joint sewage disposal works with Dukinfield. Conditions regarding sewerage and sewage disposal believed to be generally satisfactory.

Urban Districts.

Alderley Edge—A new sewage disposal works to serve Alderley Edge and the Southern half of the Wilmslow Urban District is being constructed, replacing the two obsolete and over-loaded disposal works previously serving these areas. This works will also receive sewage from the parish of Chorley in the Macclesfield Rural District. Many sewers in the Urban District are defective and Consultants have prepared schemes for the re-sewering of the area in stages. A phased programme of sewer construction is being carried out, the first part of which is anticipated to cost £90,000.

Alsager—The Council have two disposal works, at Day Green and Longview. There is also a works constructed by the Ministry of Supply for the Ordnance Factory at Radway Green, which receives sewage from a population of approximately 850 persons in that area. Of the other disposal works, Longview serves about one-quarter of the population, and Day Green the remainder. The Longview works are in good condition but appear to be working to capacity and to be in need of additional sludge drying beds, while the Day Green works are badly overloaded and dilapidated. The Council have engaged Consultants who are proceeding with the preparation of plans for reconstructing the Day Green works, improving and extending the Longview works, and for improving the sewerage system to provide for development and to remedy surcharging and flooding which at present occur at times of heavy rain. It is understood that the Alsager Council intend to proceed with this scheme as rapidly as possible.

Bollington—The Bollington sewage contains a considerable amount of trade wastes. The sewage works are overloaded and producing a very poor effluent. It has been agreed that these works shall be abandoned, and the sewage, including trade wastes, conveyed to the Macclesfield Borough Sewage Works at Prestbury. These works are to be extended (see notes under Macclesfield Borough). It is anticipated that the outfall sewer for conveying the Bollington sewage to the Macclesfield works will be laid within the next five years, and the cost is estimated at £55,000. It is understood that the sewerage of the town is generally satisfactory.

Bowdon—Sewage Disposal Works, consisting of sedimentation tanks and land irrigation are overloaded and obsolete. The sewers are on the combined system, and considerable infiltration takes place. Consultants have prepared a scheme for a completely new sewage disposal works, and for the relaying of several lengths of sewer in order to reduce infiltration. The estimated cost is £63,000. The scheme has been the subject of a Ministry investigation, it is now practically ready for going to tender, and the Bowdon Council intend to proceed with it as quickly as possible.

Bredbury and Romiley—Sewage disposal works at Bredbury operating to full capacity, or beyond. Sludge pumped in a northerly direction to a site which was formerly in north-west corner of Urban District but is now within the County Borough of Stockport and the Stockport Corporation have erected houses in the vicinity of the site. The sludge is dealt with by lagooning and broad irrigation. Council considering alternatives of either discharging sewage in to the Manchester Corporation's sewerage system (as suggested by the Mersey River Board) or of enlarging the Bredbury Works and making other provision for sludge disposal.

Sewerage schemes have been carried out recently to provide for new development and to remedy flooding in the area, and a previously unsewered village, Compstall, has been connected to the sewerage system.

Cheadle and Gatley—Whole of sewage from area discharges into the Manchester Corporation Sewerage system. Improvements to Sewerage system of the district in progress. Heald Green foul sewer just completed at estimated cost of £53,000. Schemes will ensure freedom from flooding and provision for new development.

Hale—A scheme for the extension and reconstruction of the existing sewage disposal works (of the activated sludge type) is nearing completion, at a total estimated cost of £95,450. The works will then be adequate to deal with the foreseeable ultimate development of the area. Minor schemes to deal with flooding and new development have recently been carried out, and the sewerage system is under stood to be in good condition. (A new main drainage scheme was completed in 1952).

Hazel Grove and Bramhall—There are two separate drainage areas. Bramhall is drained via Cheadle and Gatley U.D.C.'s trunk intercepting sewer into the Manchester Corporation Sewers. The Poynton area of Macclesfield Rural District is similarly drained. The remainder of the district is drained to the Council's own sewage disposal works at Offerton (within the County Borough of Stockport). These works have recently been extended at a total cost (estimated 1955) of £244,500, to deal with a total population of 37,000. Capacity is included for the reception of sewage from the Offerton area of Stockport and from the Dooley Lane works of Marple Urban District Council thus allowing this unsatisfactory works to be abandoned.

The sewerage system is understood to be satisfactory, having been extended and overhauled comprehensively in 1937/40. The Council's immediate proposals are for a number of surface water sewers only.

Hoylake—Sewage is conveyed to four outfall sewers discharging to sea or estuary. All are affected by major foreshore changes and are in varying stages of under-capacity and decay, and discharging at points at which pollution of foreshore may arise. Also development of area has caused surcharging of sewer and local flooding. The three other authorities of the North Wirral (Wirral U.D.C., Wallasey and Birkenhead County Boroughs) who discharge sewage into the sea from parts of their areas via the North Wirral outfall sewer at Leasowe (which also serves a part of the Hoylake Urban District) are experiencing similar difficulties.

Hoylake prepared a scheme to deal jointly with these problems (i) by providing new sewers as necessary in the Urban District, conveying the whole of the sewage (untreated except for maceration) to a new outfall to be provided at Hilbre, and (ii) by enlargement of the North Wirral system as necessary and conveying this sewage also to the new outfall at Hilbre. The ultimate cost to Hoylake was estimated at £1,699,100. The Ministry held a Public Inquiry into the scheme in March, 1959. Considerable local feeling against the scheme was expressed at the Inquiry, but the Minister approved the proposals. Since then very strong local opposition has continued, and the Hoylake Council have been considering alternative schemes, including full or partial treatment.

Knutsford—Sewage disposal works becoming overloaded though still producing satisfactory effluents. Development is taking place in the district, including some Manchester Overspill, and flooding occurs in certain parts of the town.

Consultants have prepared proposals to deal with the situation in stages as follows:—

- (1) To deal with flooding, and the immediate development proposed in the Mobberley Road area. This scheme, estimated to cost £44,300 has reached the stage of seeking tenders.

- (2) To provide sewerage for the Beggarman's Lane Development area, at an estimated cost of £31,900.
- (3) The extension of the sewage disposal works, probably to provide for an ultimate population of 17,000, though this again may be done in two stages.

Longdendale—Two sewage works, one at Hollingworth, one at Broadbottom. The first is in reasonable condition, the second obsolete and dilapidated. Mottram not sewered, giving rise to pollution of watercourses. Overspill to be received from Manchester, totalling 7,200, *i.e.* increasing population by above 150%.
 Scheme prepared:—

- (1) to extend sewerage system to areas not now sewered, including Mottram
- (2) complete reconstruction of Broadbottom works to deal with Broadbottom, Manchester Overspill, and parts of Mottram
- (3) enlargement and adaptation of Hollingworth works to deal with additional sewage from parts of Mottram and other parts of district not at present sewered.

The cost of this scheme is estimated at £170,000.

It is expected that work will commence in the near future.

Lymm—There are two disposal works, one at Statham serves approximately one-third of the population, and the other, at Sow Brook, serves the remaining two-thirds. Both works are overloaded and obsolete. The North-South Motorway is scheduled to pass through the centre of the Statham Works.

The Council have prepared a scheme to construct a complete new works to the east of the existing Sow Brook works, to which the whole of the sewage of the district will be conveyed. The scheme has now received all the necessary approvals and has gone out to tender. As early a start as possible will be made on the work. The sewerage system covers practically the whole district and is understood to be in reasonable condition.

Marple—Sewage works at Dooley Lane, Low Marple and Strines, the latter being quite small. The Dooley Lane and Low Marple Works have been in urgent need of reconstruction or abandonment for many years. In 1948, it was agreed to adopt a scheme whereby both the works would be abandoned and the sewage from them conveyed by a trunk sewer down the Goyt Valley to the Offerton Works of the Hazel Grove and Bramhall U.D.C., which were to be enlarged to deal with the flow from Marple as well as development in Hazel Grove and Stockport. The Offerton Works have now been completed and the sewer from the Dooley Lane Works (almost opposite) to the Offerton Works is almost ready for use.

It has now been decided by the Marple Council to reconstruct the Low Marple Works instead of laying the trunk sewer to Offerton, and a scheme for this has been prepared. It is expected to cost between £60,000 and £70,000. It is understood that this scheme is practically ready for submission to the Minister.

The Strines Works are in satisfactory order.

The populated parts of the district are sewered and the sewers are understood to be in satisfactory condition.

Middlewich—Conditions here are very poor. Works constructed in 1909 have been very badly affected by subsidence and are practically useless, and much sewage is passing into the River untreated. Consultants are preparing a scheme for a completely new works on a different site, together with the necessary pumping stations and sewers. Planning applications have recently been made for approval of the proposed sewage works site, on the River Croco to the east of the town, and for two pumping stations to convey sewage thereto.

The total estimated cost of the scheme is thought to be in the region of £220,000.

Nantwich—The sewage works were constructed in 1937/38 and are in quite good condition, but it is understood they are now working beyond capacity, and will need some extension before very long. A tannery in the town sends large quantities of effluent to the sewage works, and this affects the quality of the final effluent to some extent. The sewerage system is very old in parts and incorporates a number of culverts in questionable condition, and infiltration occurs. A number of minor schemes have been carried out recently or are in hand to provide for new development, and to replace lengths of sewer which have become unserviceable.

Neston—There are two sewage disposal works for the district both providing full treatment and discharging their effluents into the River Dee Estuary. The works are in fair condition, but the main works is probably becoming overloaded. Burton village is not sewered, but a scheme has been prepared, and is believed to be at tender stage. The sewerage system is understood to be satisfactory, though there is a need for extension into the more rural parts of the district.

Northwich—Sewage works are situated at Winnington on banks of River Weaver. These works appear to be reasonably adequate at the present time, but the site is encircled by industrial development and any large extension of works would necessitate new site.

Centre part of town has suffered from subsidence, and for many years this area has drained directly to the River Weaver and River Dane. (Surveyor estimates 70-80% of district is drained to the sewage works).

The Council are working on plans for the re-development of the town centre, new roads etc., and the sewerage of the town centre will be dealt with at the same time. Negotiations regarding the town re-development have held up the work, but it is now hoped that the plans will be finally agreed in the near future, and that the work will be able to proceed.

The sewage from the town centre will be pumped to the Winnington works.

Runcorn—Sewage is disposed of untreated by two outfalls into the River Mersey, via syphons under the Manchester Ship Canal. The syphon at Weston Point is fractured and sewage flows into the Canal. The sewerage system is overloaded and flooding occurs in times of storm. Also many sewers are old and infiltration occurs. Consultants have worked out schemes to be carried out over a period, providing for new trunk sewers, intercepting sewers, pumping stations, and sewers to serve new development, as necessary, with the provision of a complete new sewage treatment plant.

The first phase of this scheme, costing £28,000, has already been carried out. This scheme provided a section of new intercepting sewer which provided at the same time for extensive new development in Higher Runcorn.

The Council estimate the total cost of the schemes to be carried out in the next few years at £347,500.

Sandbach—The Council's Sewage Disposal works are situated at Hindheath and are at present being extended to make them adequate for dealing with sewage from the whole area. Small works at Elworth and Elworth Street are being demolished and pumping stations and rising mains provided to convey the sewage to the Hindheath Works.

When this work is completed, the whole of the district's sewage will be treated at the Hindheath works which will be very adequate for the purpose.

A number of sewers in the town are very old, some are culverts in questionable condition, and infiltration occurs.

Minor sewerage schemes are carried out from time to time to improve the existing sewers or to provide for new development.

Wilmslow—The southern part of the district at present drains to obsolete works at Lindow. The sewer to carry this flow down to the new joint works with Alderley Edge U.D.C. is now being laid and should be completed in the next few months. The northern area drains to sewage works near Twinnies Bridge on the Styal Road. Extension and reconstruction of these works is almost complete. New trunk sewers to deal with increased flows and overspill development have also been laid. Work has commenced on a scheme to drain the

village of Styal to the northern works. When all these schemes are completed, in say twelve months time, the whole area will be well served, and only minor schemes will be necessary to deal with new development, etc.

Winsford—At present there are four disposal works, one on each side of Bottom Flash, near the town centre, one at Meadowbank and one at Clive. The two latter works provide for development in their immediate vicinity, and are outside the main town area. They are both in reasonable condition, though the works at Clive are somewhat overloaded. The two works on the banks of Bottom Flash are on subsiding sites, they provide only rough sedimentation and passage through clinker beds before discharge into the Flash, and they are generally unsatisfactory, obsolete, and detrimental to the amenities.

The sewerage system is also unsatisfactory in that sewage from low-lying areas adjoining the River Weaver is discharged directly into the river without treatment. The town's present population is 13,000. It is now proposed to develop the town by receiving 15,000 overspill from Manchester, and it is estimated that by 1971 the population will have increased to 32,000. An extensive industrial estate is also being prepared.

The Council have prepared a comprehensive scheme of sewerage and sewage disposal by which the whole of the sewage from the main populated areas and the new development will be carried to a complete new works on a new site to the north of the town, near Wade's Crossing. The obsolete Flash works will be abandoned, and the Clive works will be retained only for a few adjacent properties and to deal with storm water. The total cost of the scheme is estimated at £534,891, and it is hoped the whole scheme will be carried through in the next few years, commencing very shortly. An unsewered area at Swanlow South is also to be sewered into the main system, and work on this is expected to commence in the next month or two.

Wirral—There are four drainage areas.

The Gayton area drains to works near Gayton Cottage, with outfall into the Dee Estuary. Screens and tanks only.

The Heswall area drains to works near Dee Side, Heswall, also with outfall into the tidal waters of the River Dee. These works again consist of screens and sedimentation tanks only. The Barnston and Pensby area is drained by the Fender Valley Sewer which proceeds northwards through Birkenhead and ultimately discharges into the Great Culvert which flows into the River Mersey.

The Irby and Arrowe area drains to the North Wirral Outfall Sewer which discharges into the Liverpool Bay via outfall works in the County Borough of Wallasey at Leasowe. The outfall works consist of screening, detritus and storage tanks only, and are administered by Wallasey. They serve parts of Wirral U.D. (above), Hoylake U.D., Wallasey and Birkenhead.

The Council have recently undertaken a major scheme in the Heswall drainage area, estimated to cost £180,000. This is designed to alleviate flooding in the area by the construction of two intercepting sewers, the addition of additional sludge beds at the works, and the provision of a new storm overflow outfall and a new effluent outfall, into the River Dee Estuary. The work is about 50% completed. They have also carried out a major scheme in the Barnston and Pensby area, designed to prevent flooding in the area and to provide for new development. This was estimated to cost £230,000. The work is now substantially completed, and the Council have been able to relax controls restricting building development in the area. So far as the Irby and Arrowe drainage area is concerned, enlargement of the North Wirral Outfall Sewer is urgently needed, but this is linked up with the major Hoylake scheme, difficulties regarding which have caused delay (see notes under Hoylake Urban District). The Wirral U.D.C.'s share of the cost of this scheme had been estimated to amount to about £101,500.

It is understood that the Council are now preparing a scheme for improving sewerage in the Gayton area, including some improvement of the outfall works, at a total cost in the region of £90,000.

A number of minor schemes for the relief of flooding and providing for new development have also been carried out in various parts of the district in recent years.

Rural Districts.

Bucklow—Have been progressive and most of sizeable communities are sewered. Mobberley has a small sewerage system which requires extending to serve the whole of the populated area, and this scheme has now received Ministry approval and can be expected to proceed in the near future. It was held up previously because of the possibility of large scale development for Manchester Overspill. It is proposed to extend the works at Partington, designed for a population of 3,000, to cater for an ultimate population of 9,000, including Manchester Overspill. Schemes are also proposed for Carrington (£30,000) and Plumley—extension (£6,000).

Chester—Many of the larger villages have sewerage facilities, but schemes are still required for Elton, Dunham Hill, Mickle Trafford, Guilden Sutton, Dodleston (part) and Mollington, and certain sewer extensions to other built up areas could be carried out.

Congleton—The main schemes required here are at Holmes Chapel, Church Lawton (Red Bull) and Rode Heath. The existing sewage disposal works at Holmes Chapel have been badly overloaded for a long time and the River Dane suffers serious pollution at times. There are three large factories in the area, and changes in the composition of the trade wastes have occurred from time to time. The

works also serves the Cranage Hospital, which has developed over the years. There have thus been difficulties in designing suitable disposal works. However, it is understood that the scheme is now in the final stages of preparation. It is estimated to cost £152,000 (including improvements to sewerage system).

The Church Lawton area can be drained into the Red Bull Works of the Kids Grove U.D.C. (Staffs.). These works have just been completely reconstructed, and the Church Lawton scheme can thus be proceeded with. It is estimated to cost £32,250.

A scheme for sewerage and sewage disposal in the Rode Heath area is in course of preparation. It is estimated to cost £30,000.

Disley—There are two sewage disposal works serving almost the whole of the population. These are believed to be working satisfactorily and to be adequate for present needs.

Macclesfield—The major villages are served by sewerage schemes. The following schemes are proposed:—

Chorley Sewerage—to connect to Joint Works of Alderley Edge and Wilmslow (South). Estimated cost £10,800.

Langley Sewerage—to drain village into the Macclesfield Borough sewers. Estimated cost £26,646.

Poynton Sewerage—to provide for development—estimated cost, £17,000.

Kettleshulme Sewerage—Estimated cost £8,000.

Nantwich—This is a very extensive rural district. A number of schemes have been carried out in the more populated areas, but much remains to be done. The following programme has now been drawn up by the Council, and if this is carried through it will considerably improve the position:—

Audlem—A scheme of sewerage and sewage disposal to cost £75,000, has reached the Inquiry stage.

Wybunbury and Walgherton—A scheme to cost £42,500 is also to be the subject of a Ministry Investigation.

Bunbury and District, including Spurstow—(£47,310).

Stapeley, London Road—(£16,500).

Wrenbury Village and District including Newhall—(£42,240).

Sound—(£5,000).

Hankelow—(£12,000).

Stoke—(£17,335).

Marbury—(£7,095).

Above schemes will be carried out in rotation, in the next five years or so. After the completion of that programme, the following schemes will be dealt with:—

Bulkeley—

Faddiley, Brindley and Burland—(£25,050).

Alraham—(£21,050).

Calveley—(£9,530).

Worleston and Poolc—(£18,050).

Northwich—The Council for this large Rural District have been very progressive over the years in the matter of Sewerage and Sewage Disposal and have carried out a considerable number of schemes. They have reached the stage where all the sizeable groups of population have been dealt with, and the schemes now required are to deal with smaller villages or to provide extensions or replacements to existing works. Schemes have recently been completed to serve Allstock, Anderton, Little Leigh, Weaverham (sludge treatment works) and Wincham, and schemes to serve Acton, Comberbach, Delamere (Western Area), Lach Dennis and Rushton (Eaton) have been submitted and will be carried out in the near future.

The Council's future programme includes:—

Little Budworth village—sewerage and sewage disposal (£7,250).

Crowton village—sewerage and sewage disposal (£14,000).

Hartford—sewage works extensions.

Lostock Gralam—new sewage works to replace existing unsatisfactory works (£28,000).

Tarporley—new works to replace existing unsatisfactory tank and irrigation area put down over fifty years ago (£15,800).

Other sewage works extensions will be required from time to time.

Runcorn—The more thickly populated parts are served. Improvements have recently been carried out to the Frodsham sewerage system.

A scheme for Kingsley is due to commence immediately.

The Council intend to carry out schemes for Norley (£60,000), Stretton (£30,000) and Great Budworth (£30,000). In several other cases, extensions of sewerage and of sewage disposal works, will become necessary in the near future.

Tarvin—A number of schemes have been completed in recent years, and the majority of the larger villages are now served. For some time the sewerage of the villages of Tarvin and Kelsall has been most urgent. The Tarvin scheme is now being carried out and should be completed in 1961.

It is understood that the Sewerage and Sewage Disposal Scheme for Kelsall will then be proceeded with.

After this, the Council intend to carry out a scheme for the village of Churton-by-Farndon.

Tintwistle—The district is sewered to sewage disposal works, and it is understood that there are only four premises which are not on the water carriage system. The works have been in operation 50 years or so, settlement has occurred, and certain units are inadequate for present flows. The Council have prepared a scheme to recondition and extend the works so as to put them in good condition to deal with present and future anticipated flows. The estimated cost of the work is £11,500.

The sewerage system is believed to be in reasonable condition.

Financial Assistance to District Authorities

Financial assistance towards the cost of water supply, sewerage and sewage disposal schemes is made by the County Council to District Councils in two ways. Under the Rural Water Supplies and Sewerage Acts approved schemes for rural localities may qualify for assistance both from the Exchequer and from the County Council. The County Council also operates a scheme of financial assistance which applies to all district authorities in the county. This is based on the relative incidence (expressed in terms of rate) of the cost of water supply and sewerage in the area of each Borough Council and District Council in the county. Thus Councils with a heavy rate burden for these services receive assistance from the County Council.

The latter scheme has operated since 1946 under the provisions of Section 307 of the Public Health Act, 1936. However, this section has now been replaced by Section 56 of the Local Government Act, 1958, which enables a county council to make any contribution it thinks fit to the expenditure of a county district council. This Act also rearranged the grant structure of local government finance so that less wealthy district councils now receive rate deficiency grants which operate to bring their resources up to the national average level. The county scheme has accordingly been under review in order to decide whether excessive rate burdens on water supplies or sewerage should still be used as criteria for the granting of County Council assistance, and if so, whether the present method of deciding the amount of assistance to be given should still be used.

At the end of the year, no final conclusions had been reached regarding the County Scheme of Financial Assistance.

For the financial year ended 31st March 1960, a total of £53,044 was contributed by the County Council to the county district councils who qualified in one of the ways specified above, and for the year ended 31st March 1961, the total was £50,784.

During the year 1960, ten schemes of water supply estimated to cost in all £24,236, and nineteen schemes of sewerage and sewage disposal estimated to cost £1,127,370, were considered by the Department, and brief outlines of these schemes are given below.

Water Supplies:

Congleton Municipal Borough Council

Extension of water mains in Back Lane, Congleton at an estimated cost of £2,330. The scheme provides for the laying of 580 yards of 6in. diameter main and 180 yds. of 3in. and 100 yds. of 4in. diameter branch mains to provide an adequate supply for industrial and residential development. The present supply consists of a 3in. diameter main laid some 50 years ago with a 2in. diameter branch to existing factory premises which is not adequate for all purposes, *e.g.* fire fighting.

New water mains in Southlands Road, Congleton at an estimated cost of £650. The scheme provides for the laying of 294 yds. of 4in. and 62 yds. of 3in. diameter mains to provide a supply for an extension of a housing estate which will total 60 private houses.

Renewal of water main in Biddulph Road, Congleton at an estimated cost of £2,760. The scheme provides for the replacement of a 6in. diameter main which is approximately 60 years old and which is now in very poor condition by the laying of 710 yds. of new 6in. diameter main.

Replacement of water main in Leek Road, Congleton at an estimated cost of £1,005. The scheme provides for the replacement of two sections of 3in. diameter main laid approximately 60 years ago which are now in very poor condition, by 310 yds. of new 4in. diameter main.

New water mains on the Buglawton Housing Estate Congleton at an estimated cost of £1,320. The scheme provides for the laying of 265 yds. of 6in. and 225 yds. of 4in. diameter mains to serve the first part of a proposed development which will ultimately total approximately 140 private houses.

New water mains on the Dane Bank Estate, Congleton, at an estimated cost of £610. The scheme provides for the laying of 270 yds. of 4in. diameter main to serve a proposed development of 32 private houses.

Water Supply extension scheme in Box Lane, Sandbach Road and Padgbury Lane (part) Congleton, at an estimated cost of £5,646. The scheme provides for the laying of 1,570 yards of 6in. water main to cater for new housing development which is taking place in the area.

Tarvin Rural District Council

Water Supply Scheme for Bradley at an estimated cost of £2,430. The scheme provides for the laying of 1,585 yards of 3in. main as a link between the existing mains at Stag Hall, Bradley, and Top Farm, Bradley, respectively, in order to provide an adequate supply of water to 13 properties in the Parish of Bradley.

Water Supply Extension Scheme for Horton-by-Malpas at an estimated cost of £2,100. The scheme provides for the extension of an existing main by the laying of 1,220 yards of 4in. main in order to provide an adequate supply of water for 20 additional properties in the parishes of Tilston and Horton.

Water Supply Extension Scheme in the Parish of Tushingham-cum-Grindley at an estimated cost of £5,385. The scheme provides for the laying of 3,174 yards of 4in. water main and 140 yards of 2in. water main from an existing 4in. main at "The Riddings" on the Chester-Whitchurch Road to Moorside Farm, Tushingham, thus providing a piped supply of water to 10 farms and small-holdings and 10 houses and cottages at present served mainly by unwholesome and inadequate supplies from shallow wells and springs. In this case the scheme was approved subject to the R.D.C. being asked to approach the owners or occupiers of the agricultural properties in the scheme for a contribution towards the capital cost of taking a supply of water to their respective properties in the event of no grant being made towards the cost of the scheme by either the Ministry of Housing and Local Government or the Ministry of Agriculture, Fisheries and Food.

Sewerage and Sewage Disposal:

Congleton Rural District Council

Drainage scheme at Brereton Hall School, Brereton Green at an estimated cost of £2,000. The scheme provides for the laying of a 6in. sewer from the Hall to a proposed pumping station and a 4in. rising main from the pumping station to the existing Brereton Green disposal works in order to provide an efficient disposal system for the Hall and replace an existing septic tank installation which is now in need of considerable repair.

Church Hulme (Holmes Chapel) Sewage Works. A scheme to carry out immediate remedial works to temporarily relieve the overloaded sewage works, including a new sludge lagoon, and improvement to the sludge pump, at an estimated cost of £1,645.

Hoylake Urban District Council

Sewerage scheme for the Montgomery Hill area, Frankby, at an estimated cost of £6,896. The scheme provides for the laying of 785 yards of 9in. and 106 yards of 6in. sewer connecting to an existing sewer in Baytree Road in order to provide drainage for 19 properties and replace a number of inefficient and badly sited septic tanks which are considered to be a possible source of danger to public health.

Nantwich Rural District Council

Sewerage and sewage disposal scheme for Audlem at an estimated cost of £79,000. The scheme provides for the laying of some four miles of sewer varying in diameter from 6in. to 18in. and the construction of a new disposal works, and will provide an up-to-date sewerage system for 280 properties, 2 schools and light industrial development, and replace a large number of cesspools and septic tanks and enable the conversion of 118 pail closets in the area. (Note this scheme is in substitution for the outline scheme which was approved in principle in September, 1949, at an estimated cost of £23,105).

Northwich Rural District Council

Amended scheme for sewerage and sewage disposal for the parish of Acton at an estimated cost of £31,113. (See 1958 Report).

Sewerage and sewage disposal scheme for the Parish of Comberbach at an estimated cost of £31,725. The scheme provides for the laying of new sewers, the relaying of certain lengths of existing sewers and the construction of a disposal works to provide sewerage facilities for the existing properties in the village of Comberbach and for those areas in which development is anticipated, a total of 181 existing properties and 34 future properties together with provision in the sewers to accommodate an estimated ultimate development of 287 properties.

Nantwich Urban District Council

Sewerage scheme for housing development (182 houses) by the Nantwich U.D.C. in Whitehouse Lane, Nantwich, at an estimated cost of £21,080. The scheme provides for the laying of a 24in. diameter storm water sewer from the development site to the River Weaver and an 18in. foul sewer from the site to the Beam Bridge Pumping Station to serve the Whitehouse Lane development and also to relieve flooding which occurs at times of heavy rain at the northern end of Birchin Lane and making provision at the same time for the drainage of 120 houses to be built on the northern side of Birchin Lane.

Wilmslow Urban District Council

Supplementary work to the Wilmslow Northern Drainage Scheme at an estimated cost of £6,000. The proposal provides for the diversion of a length of the River Bollin at The Carrs, Wilmslow, and the filling in of the old river bed. An existing sewer and a new sewer laid as part of the Northern Drainage Scheme both run along the bank of the river at the point in question where serious erosion has occurred. Further major erosion of the bank will endanger these two sewers and may well result in the fracture of one or both. The proposed work will ensure the safety of these two main outfall sewers. (The Mersey River Board has agreed to make a contribution of 20% of the cost of the work).

This scheme was approved subject to the exclusion, for the purpose of the County Scheme of Financial Assistance, of any part of the cost which is in respect of works of amenity only.

Wirral Urban District Council

Sewerage scheme at Meadway, Heswall at an estimated cost of £1,483. The scheme provides for the laying of 279 yds. of relief sewer varying in diameter between 9in. and 15in. according to gradient to prevent flooding which occurs in the area in time of storm and to provide for further residential development.

Proposed relief sewer scheme for the Heswall Hills area of Wirral Urban District, at an estimated cost of £24,790. Extensive development has taken place in the area since the existing "combined" trunk sewer of the sewerage system was laid some 35 years ago, and this trunk sewer is now incapable of dealing with stormflows, and serious flooding is a frequent occurrence in the area. Further housing development is held up pending improvement of the sewerage system. The proposed scheme will consist of the laying of 1,725 yards of relief trunk sewer commencing at Barnston Road, some 300 yards or so north of the Glegg Arms, in 9in. pipes, and increasing in size up to 33in. diameter before discharging into the Fender Valley sewer on the north side of Whitehouse Lane; and the laying of 245 yds. of 15in. branch sewer in Brimstage Road, to relieve flooding in Sandham Grove. These sewers will provide for development in the Prospect Farm and Border Farm areas.

Bollington Urban District Council

Sewer extension scheme for Oak Fold area, Kerridge, at an estimated cost of £2,400. The scheme provides for the laying of 631 yards of new 6in. sewer with connection to an existing 9in. sewer to provide sewerage facilities for eleven properties in the Oak Fold area.

Bredbury and Romiley Urban District Council

Sewerage scheme for the Ashton Road area, Bredbury at an estimated cost of £33,500. The scheme provides for the laying of new foul sewers in the Ashton Road area to serve existing and anticipated industrial development in the area. The sewers will discharge to a pumping station to be provided near Arden Hall, which will lift the sewage via a length of pumping main to the head of a new gravity sewer to be laid down Ashton Road and discharging into an existing sewer near the Cheshire Lines Railway on Ashton Road.

Surface water sewer scheme for the Compstall Road area, Romiley, at an estimated cost of £10,000. The scheme provides for the laying of 227 yards of part 24in. and part 27in. diameter relief surface water sewer with connections from manholes on existing sewers and surface water drains to relieve pressure on the existing sewers and drains and so prevent flooding which now occurs in the area.

Lymm Urban District Council

Sewerage and sewage disposal scheme at an estimated cost of £154,000. The scheme provides for replacement of two obsolete and overloaded sewage farms, one at Statham and one at Sow Brook, the installation of pumping stations at these two farms and pumping mains to a new disposal works to be constructed to the east of the Sow Brook sewage farm. The scheme also provides for the sewerage of the Massey Brook area with drainage to the new disposal works and the abandonment of an existing disposal works at Massey Brook.

Ellesmere Port Municipal Borough Council

Sewerage scheme for the Rivacre Valley at an estimated cost of £89,000. The scheme provides for the construction of a relief valley sewer approximately two miles in length and from 27in. to 33in. in diameter, commencing at Great Sutton and terminating near the Rivacre Valley Swimming Pool, to relieve the existing Rivacre Valley Sewer which is 60 years old and is very badly surcharged. However, the present sewer discharges into a tidal storage basin adjoining the Manchester Ship Canal, near Bowaters' Paper Mills, and from this basin a syphon under the Canal conveys both the contents of the sewer, and the Rivacre Brook itself, into the River Mersey. This syphon is inadequate to deal with the flows reaching it in times of storm, and flooding occurs around the basin and up the valley.

The scheme as submitted did not indicate the definite proposals of the Borough Council for dealing with the sewage conveyed by the new sewer to its terminal point, and consideration of the same was accordingly deferred pending the submission of further details.

Knutsford Urban District Council

Proposals for the relief of flooding and additional sewerage facilities at an estimated cost of £44,300. The scheme provides for (a) remedial works to prevent flooding in the Bexton Road, King Street/Swinton Square and Woodvale Road areas, (b) additional sewers to provide drainage facilities for development in the Mobberley Road area and to relieve the existing sewer in Mobberley Road and (c) improvement of a ditch at Bexton Road to receive the storm overflow from Bexton Road.

Runcorn Urban District Council

Sewerage scheme for Heath Road, Runcorn, at an estimated cost of £28,277. The scheme provides for the laying of approximately 1,000 yards of new sewer varying in diameter from 15in. to 27in. and forms part of further major sewerage works which will be carried out in the future. The present proposal will improve the existing sewerage facilities in Higher Runcorn and will permit development of approximately a further 120 acres of land in that area. It is an enlargement of, and in substitution for, the scheme approved in June, 1959 at an estimated cost of £11,150.

Tintwistle Rural District Council

Extension and improvement of existing Sewage Disposal Works at an estimated cost of £11,000. The present disposal works are some 50 years old and have for some time been inadequate to deal with the present day flow. The proposal provides for the improvement and extension of the disposal works to deal with the present increased flow and to provide facilities for flow from future development. This scheme was approved subject to the Rural District Council being recommended to incorporate in the scheme the provision of shelter accommodation with toilet and washing facilities for use by workmen.

Winsford Urban District Council

Sewerage Scheme for Swanlow South area at an estimated cost of £16,670. The Scheme provides for the connection of this area to the main sewerage system of the town. Part of the area which at present has no public sewers, is served by septic tanks or pail closets, and part at present drains to an old tank, the effluent from which discharges to an open watercourse causing pollution which has led to complaints from adjoining farmers. At the same time provision will be made for future residential development.

This scheme was approved subject to the Urban District Council being recommended to make arrangements for the periodic flushing of the lengths of sewer which will be laid at flat gradients in Swanlow Lane.

Sewerage and Sewage Disposal Scheme for Winsford at an estimated cost of £53,891. This is a comprehensive scheme to deal both with the existing unsatisfactory conditions in Winsford so far as sewerage and sewage disposal are concerned, and at the same time provide for further residential development due to overspill and other schemes, and also proposed industrial development. The scheme comprises the provision of a complete new disposal works on a new site to the north of the town to supersede the two existing and obsolete works adjoining the "Flash" at Over and Wharton as well as the works at Clive; trunk intercepting sewers and other sewers, pumping stations, rising mains, etc., to link the existing sewers to the new works; provision for draining the new housing and industrial development; and pumping stations and rising mains to lift the sewage from the low-lying areas in the centre of the town, at present draining direct to the river, into one of the new intercepting sewers.

This scheme was approved in principle subject to further consideration of any amendments which may be found necessary prior to the execution of the scheme.

Ministry of Housing and Local Government Inquiries and Investigations

During the year, Inspectors of the Ministry held Inquiries or Investigations into the following schemes, and on each occasion the Department was represented by the County Health Inspector.

March 22nd—Lymm U.D.C.—Sewerage and Sewage Disposal—comprehensive scheme.

April 5th—Northwich R.D.C.—Rushton (Eaton) Sewerage and Sewage Disposal Scheme.

September 1st—Knutsford U.D.C.—Sewerage Scheme for prevention of flooding and provision for new development.

November 11th—Wirral U.D.C.—Heswall Hills Sewerage Scheme.

December 7th—Winsford U.D.C.—Comprehensive Sewerage and Sewage Disposal Scheme.

LIAISON WITH COUNTY PLANNING DEPARTMENT

An arrangement is in operation whereby applications for approval of development under Planning Legislation where the proposals have a public health significance and upon which the Planning Officer would like a public health opinion at County level, are submitted to the Department for consideration and comment.

During the year 1960, twenty-two such applications were dealt with as follows, and in each case full consideration of all aspects took place, and the Department's opinion given for the assistance of the Planning Officer:—

Improvements, alterations and extensions, so as to comply with the Slaughterhouses Act, 1958, and Regulations made thereunder	11
Erection of new slaughterhouse	1
Site for Cattle Market and Abattoir	1
Use of Caldry Brook Valley, Great Boughton, as Refuse Tip	1
Use of Claypit as Refuse Tip	1
Use of Gravel Pit as Refuse Tip	1
Extension to Council Depot to form Ambulance Station	1
Extensions to Sewage Disposal Works	2
Site for Sewage Pumping Station	1
Site for new Sewage Disposal Works	1
Site for proposed new Health Centre	1
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LIAISON WITH COUNTY SURVEYOR'S DEPARTMENT

For some years the County Council have allowed the discharge of sewage effluents into their road surface water drains subject to a number of conditions and safeguards.

All applications received by the County Surveyor for permission to make such connections are referred to this Department as well as to the County District Councils (in the case of private development).

The Department considers each case on its merits, particularly with regard to the type of treatment to be installed and the ultimate outfall of the surface water drain, and also as to whether any other means of disposal are available.

The County Surveyor is then advised as to whether it is considered that the connection should be allowed.

If the connection is allowed, a tripartite agreement is entered into to protect the County Council's position, and the District Council is responsible for seeing that the means of treatment provided are properly constructed, and for making inspections at six-monthly intervals to ensure satisfactory maintenance and efficient working.

During 1960, fourteen such applications were dealt with.

ATMOSPHERIC POLLUTION

The Clean Air Act of 1956, which was the outcome of the Report of the Beaver Committee on Air Pollution, marked a noteworthy advance in the fight against Smoke and Smog. It gave local authorities many additional powers, not least of which was the power to declare smoke control areas, *i.e.* areas comprising the whole or any part of their districts in which the emission of smoke is an offence. A main purpose of the establishment of such areas is to control the smoke from domestic stoves and fireplaces burning coal, which cause about half the smoke in the atmosphere.

The Minister of Housing and Local Government, in 1958, reviewed the progress being made under the Act and came to the conclusion that though an encouraging start had been made, faster progress ought to be possible, especially in removing the smoke pall from the "black areas" where air pollution is most marked. Accordingly, in January 1959, he asked the authorities in "black areas" to consider the domestic smoke problem as a whole, decide what was needed, orders of priority, timing, etc., and to prepare a phased five-year programme; and in July 1960, he issued a summary of the programmes submitted by the local authorities in the "black areas", as at 31st March, 1960.

As certain areas of Cheshire are included in the provisional list of "black areas", and as this work has more than a purely local interest and significance, it has been considered appropriate to include in this report a summarised extract of the programmes of the Cheshire local authorities included within the North-East Cheshire and Merseyside "black areas" as printed in the Minister's Report, as well as certain information regarding the programmes of other Cheshire local authorities who are carrying out work in connection with Smoke Control Areas.

It is hoped to give reports on the progress of this work in the county in future Annual Reports.

It will be noted that when the Ministry Summary was prepared, the Borough of Dukinfield had not submitted a programme. However, since that time the authority has worked out a programme by which it is hoped to cover the whole area with Smoke Control Orders within the next twenty years. One area, comprising 112 dwelling-houses in course of erection by the local authority, has already been confirmed (as from 1st September 1961) and two further areas are proposed both of which are re-development areas. Work has also commenced on surveying the first major smoke control area in Dukinfield, which will involve approximately 700 houses.

Programme of authorities not included within "black areas"

A number of authorities in Cheshire are to be commended for carrying out work in connection with the declaration of smoke control areas, though they are not included by the Ministry in the so-called "black areas".

Borough of Crewe

The first area comprises 1,085 premises including 1,070 dwellings, and covers 270 acres on the west side of the Borough. A local inquiry was held on 15th August 1961, to hear objections to the Order. The second area comprises 28 acres in the town centre, and will cover 314 premises, including premises used for a great variety of purposes as well as many dwellings.

It is proposed eventually to cover the whole Borough with Smoke Control Orders.

Urban District of Hazel Grove and Bramhall

The Urban District has been divided into six parts, and these will be dealt with in sequence until the whole of the district is covered by Smoke Control Orders. The first area is on the extreme east of the Urban District, and contains some 1,411 acres and 1,124 premises, including 1,068 dwellings, and 54 industrial and commercial premises. This Order has gone to the Minister for confirmation, and a second area is now under consideration.

Urban District of Longdendale

It is intended that the area proposed for Overspill Development by Manchester Corporation shall be the first Smoke Control Area in the Urban District. It comprises just over 200 acres, and is eventually expected to contain upwards of 2,000 premises, mainly dwellings, but including two schools and other premises.

Urban District of Marple

A fifteen-year programme has been prepared, commencing in 1960, for all the Urban District to be covered by Smoke Control Orders. The total number of dwellings in the district is 5,665, and it is planned each year to deal with one area of approximately 400 dwellings. The first area covering 69 acres and comprising 391 dwellings and 14 commercial properties, has just received Ministry approval at the time of writing this report.

The second area is now being surveyed.

Urban District of Wilmslow

Three Smoke Control Areas are already in operation in the Handforth Ward, comprising in all 387 premises and 51.47 acres. Overspill development by the Manchester Corporation at Handforth totalling in all 800/1,000 housing units is also to be made a Smoke Control Area.

Urban District of Winsford

The Council's proposals envisage a total of eleven Smoke Control Areas. The first Order is now operative and covers the Grange Lane Estate, an area of 112 acres upon which it is proposed to erect about 1,100 dwellings and shops. The Nun House Farm Estate, Crook Lane (375 houses and 10 shops and flats) will be the next Area, and the Minister has already given his provisional approval to this. The Spring Bank Farm Estate (off Over Square), to contain about 90 private houses, will follow, and after that existing development areas will follow, until eventually the eleven areas will be completed, totalling approximately 325 acres and 2,846 premises.

Extracts from Summary prepared by Ministry of Housing and Local Government

(a)—Number of premises. (b)—Number of dwellings. (c)—Acreage of Land in Smoke Control Areas

Local Authority	Approx. No. of premises in L.A.'s area	Acreage of L.A.'s area	Estimated to be covered by Orders at 31/12/63			Final objective—i.e. total numbers intended ultimately to be covered			Target year for completion of programme
			(a)	(b)	(c)	(a)	(b)	(c)	
A. <i>South Lancs. and N.E. Cheshire Black Area</i> Altrincham M.B.* Dukinfield M.B.* Hyde M.B. Sale M.B. Stalybridge M.B. Bredbury and Romiley U.D. Cheadle and Gatley U.D.	15,062	3,519	1,664	1,594	252	†	†	†	†
	12,680	4,196	3,824	3,461	1,234	12,680	11,300	4,196	1974
	17,737	3,628	7,003	6,893	1,556	17,737	16,133	3,628	1969
	9,510	3,190	2,174	2,140	555	8,783	8,148	3,030	1979
	7,675	4,295	3,035	2,998	687	7,675	6,929	4,295	1969
	13,599	5,299	13,599	13,045	5,285	13,599	13,045	5,285	1963
B. <i>Merseyside Black Area</i> Bebington M.B. Ellesmere Port M.B. Runcorn U.D.	17,000	12,244	2,792	2,716	735	13,312	12,769	2,265	1982
	13,248	9,144	5,914	5,880	1,068	13,248	12,081	3,724	1972
	8,500	3,116	2,900	2,867	839	8,500	8,214	3,116	1973

†Not stated.

*No programme submitted at 31st March, 1960.

Appendix of Statistics

1960

TABLE A

Deaths by Causes.—Sex—
Each County District.

TABLE B

Deaths by Causes.—Sex; Age—
Urban Districts, Rural Districts,

TABLE C

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.

TABLE A—(Urban II).

TABLE A (Urban i).

CAUSES OF DEATH.	Alderley Edge U.D.		Alsager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romiley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dukinfield M.B.		Ellesmere Port M.B.		Hale U.D.		Hazel Grove and Bramhall U.D.		Hoylake U.D.		Hyde M.B.		
	M. 25	F. 30	M. 31	F. 27	M. 255	F. 250	M. 302	F. 255	M. 39	F. 37	M. 23	F. 35	M. 119	F. 93	M. 206	F. 215	M. 113	F. 112	M. 281	F. 259	M. 114	F. 109	M. 188	F. 144	M. 89	F. 89	M. 134	F. 147	M. 191	F. 225	M. 240	F. 214	
ALL CAUSES — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1 Tuberculosis, Respiratory	—	—	—	—	1	1	3	—	—	—	—	—	1	—	1	—	—	—	—	2	1	1	—	—	—	1	—	—	—	1	—	2	—
2 Tuberculosis, Other	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	
3 Syphilitic Disease	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	
4 Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6 Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7 Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8 Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9 Other Infective and Parasitic Diseases	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	2	1	1	1	—	1	—	—	—	1	1	—	1	1	—	—	
10 Malignant Neoplasia, Stomach	2	—	1	1	9	5	15	8	1	3	—	1	2	3	4	10	4	3	9	14	8	4	3	3	3	1	4	4	7	5	13	4	
11 Malignant Neoplasia, Lung Bronchus	3	—	3	—	17	5	17	3	1	—	1	—	11	—	8	—	5	1	13	4	10	—	15	3	4	5	8	3	9	1	14	3	
12 Malignant Neoplasia, Breast	—	1	—	3	—	6	—	8	—	2	—	1	—	2	—	10	—	2	—	10	—	—	5	—	4	—	7	—	7	—	6	—	
13 Malignant Neoplasia, Uterus	—	1	—	1	—	8	—	5	—	1	—	—	—	2	—	3	—	4	—	5	—	1	—	3	—	—	2	—	—	—	6	—	
14 Other Malignant and Lymphatic Neoplasia	2	4	2	2	26	23	22	20	4	7	1	4	13	9	25	19	9	6	19	19	9	7	17	20	8	9	14	19	14	24	17	17	
15 Leukaemia, Aleukaemia	—	1	1	—	1	3	1	3	—	—	—	—	—	—	—	2	—	—	1	—	2	—	1	1	—	1	—	1	1	1	2	—	
16 Diabetes	—	—	—	—	1	1	3	2	—	1	—	—	—	1	2	2	1	1	—	4	—	4	—	—	—	—	1	1	—	3	1	1	
17 Vascular Lesions of Nervous System	2	4	7	4	32	60	27	44	4	6	3	6	18	20	23	35	17	20	34	50	23	17	17	12	14	16	11	27	28	42	31	38	
18 Coronary Disease, Angina	5	7	3	2	53	34	70	55	15	4	7	6	26	19	53	39	35	29	69	23	15	10	51	29	24	11	39	24	65	44	44	27	
19 Hypertension with Heart Disease	—	—	1	—	4	5	7	6	1	—	1	1	2	1	1	1	1	2	4	5	2	3	5	4	1	1	1	1	4	6	3	11	
20 Other Heart Disease	1	5	4	2	28	36	25	21	—	1	1	8	9	14	16	26	8	15	35	35	8	29	9	19	12	24	16	18	8	26	22	35	
21 Other Circulatory Disease	1	2	2	3	9	10	7	5	—	1	2	7	2	18	15	5	—	8	18	3	4	5	5	—	2	6	11	6	18	13	5	—	
22 Influenza	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1	—	1	2	—	—	1	—	—	—	—	—	—	—	—	—	2	1	
23 Pneumonia	1	—	—	1	9	7	21	22	3	5	1	—	2	3	7	6	3	4	12	9	6	11	11	13	1	—	6	5	10	23	13	6	
24 Bronchitis	6	1	3	1	13	9	20	10	1	—	1	2	9	2	11	5	12	4	21	12	11	5	16	3	6	2	11	3	12	5	13	6	
25 Other Diseases of Respiratory System	—	—	1	—	3	2	4	—	1	1	—	—	—	1	—	1	2	—	1	1	—	2	—	1	—	1	—	1	3	1	1	1	
26 Ulcer of Stomach and Duodenum	—	—	—	—	1	2	2	—	—	—	1	—	1	2	3	2	—	—	7	—	2	—	3	—	4	1	2	2	1	1	4	—	
27 Gastritis, Enteritis and Diarrhoea	—	—	—	—	1	2	1	2	—	—	—	1	1	2	—	3	—	2	2	—	—	1	—	—	—	—	—	—	—	—	1	—	
28 Nephritis and Nephrosis	—	—	—	1	3	1	3	2	—	—	—	—	—	—	2	—	1	1	2	—	—	—	2	—	—	1	—	1	2	1	4	1	
29 Hyperplasia of Prostate	—	—	—	—	5	—	3	—	—	—	—	—	1	—	1	—	1	—	7	—	—	—	2	—	—	—	2	—	2	—	2	—	
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
31 Congenital Malformations	—	—	—	1	1	2	2	5	—	—	—	1	—	—	1	1	1	—	1	3	—	1	2	2	—	—	—	—	2	2	—	1	
32 Other Defined and Ill-defined Diseases	2	4	2	3	26	23	24	22	7	3	4	2	9	6	23	21	5	7	20	35	8	9	14	14	7	8	9	11	9	9	27	37	
33 Motor Vehicle Accidents	—	—	—	—	4	2	10	4	—	1	1	—	3	1	1	2	1	—	5	2	—	1	9	1	1	—	1	1	3	1	6	1	
34 All Other Accidents	—	—	1	1	2	3	10	2	1	—	—	—	2	—	3	9	1	3	5	2	1	1	5	4	1	2	1	3	2	3	3	6	
35 Suicide	—	—	—	1	3	—	2	2	—	1	—	—	2	2	1	2	—	—	3	4	2	1	—	1	1	—	1	1	1	1	2	1	
36 Homicide & Operations of War	—	—	—	—	1	—	—	—	—	—	—	—	—	1	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
LIVE BIRTHS—Total	22	22	60	59	352	358	469	401	47	34	21	32	188	167	506	439	138	151	451	459	111	112	513	451	87	98	276	283	239	251	241	248	
Legitimate	22	22	58	57	339	343	458	387	46	32	21	31	187	161	491	432	136	141	423	431	102	109	499	438	87	96	272	281	233	245	226	236	
Illegitimate	—	—	2	2	13	15	11	14	1	2	—	1	1	6	15	7	2	10	28	28	9	3	14	13	—	2	4	2	6	6	15	12	
STILLBIRTHS—Total	—	1	3	3	5	5	8	5	1	1	—	—	2	2	8	8	2	1	16	12	4	1	16	11	1	1	4	5	10	5	—	5	
Legitimate	—	1	3	3	5	5	8	5	1	1	—	—	2	2	8	8	1	1	15	11	4	1	14	10	1	1	4	5	10	5	—	5	
Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	1	—	—	2	1	—	—	—	—	—	—	—	—	
Deaths of Infants (under one year of age)	Total	—	—	—	2	13	4	18	9	3	1	1	2	5	7	9	7	2	1	11	8	1	1	10	9	2	—	3	3	6	3	9	9
	Legitimate	—	—	—	2	13	4	17	9	3	1	—	2	5	5	9	7	2	1	11	7	1	—	8	9	2	—	3	3	6	3	8	7
	Illegitimate	—	—	—	—	—	—	1	—	—	—	1	—	—	2	—	—	—	—	—	1	—	1	2	—	—	—	—	—	—	—	1	2
Deaths of Infants (under 4 weeks of age)	Total	—	—	—	12	1	14	7	2	1	—	1	3	6	8	4	1	1	10	6	1	1	7	7	2	—	3	2	5	1	6	7	
	Legitimate	—	—	—	12	1	13	7	2	1	—	1	3	4	8	4	1	1	10	5	1	—	5	7	2	—	3	2	5	1	6	5	
	Illegitimate	—	—	—	—	—	1	—	—	—	—	—	—	2	—	—	—	—	—	1	—	1	2	—	—	—	—	—	—	—	—	2	
Deaths of Infants (under 1 week of age)	Total	—	—	—	12	1	13	7	2	1	—	1	2	5	7	4	1	1	7	4	1	1	6	6	2	—	3	2	5	1	5	6	
	Legitimate	—	—	—	12	1	12	7	2	1	—	1	2	3	7	4	1	1	7	3	1	—	4	6	2	—	3	2	5	1	5	4	
	Illegitimate	—	—	—	—	—	1	—	—	—	—	—	—	2	—	—	—	—	—	1	—	1	2	—	—	—	—	—	—	—	—	2	

DISEASES	LIVE BIRTHS—Total		Legitimate		Illegitimate	
	1900	1901	1900	1901	1900	1901
25 Other Diseases of Respiratory System	2	3	—	—	—	—
26 Ulcer of Stomach and Duodenum	—	—	—	—	—	—
27 Gastritis, Enteritis and Diarrhoea	—	—	—	—	—	—
28 Nephritis and Nephrosis	—	—	—	—	—	—
29 Hyperplasia of Prostate	—	—	—	—	—	—
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—
31 Congenital Malformations	—	—	—	—	—	—
32 Other Defined and Ill-defined Diseases	2	4	2	2	—	—
33 Motor Vehicle Accidents	—	—	—	—	—	—
34 All Other Accidents	—	—	—	1	—	—
35 Suicide	—	—	—	—	—	—
36 Homicide & Operations of War	—	—	—	—	—	—
LIVE BIRTHS—Total	22	22	22	60	59	352
Legitimate	—	—	22	58	57	339
Illegitimate	—	—	—	2	2	13
STILLBIRTHS—Total	—	—	—	3	3	5
Legitimate	—	—	—	3	3	5
Illegitimate	—	—	—	—	—	—
Deaths of Infants under one year of age	—	—	—	—	2	13
Total	—	—	—	—	2	13
Legitimate	—	—	—	—	—	—
Illegitimate	—	—	—	—	—	—
Deaths of Infants (under 4 weeks of age)	—	—	—	—	—	12
Total	—	—	—	—	—	12
Legitimate	—	—	—	—	—	—
Illegitimate	—	—	—	—	—	—
Deaths of Infants (under 1 week of age)	—	—	—	—	—	12
Total	—	—	—	—	—	12
Legitimate	—	—	—	—	—	—
Illegitimate	—	—	—	—	—	—

TABLE A—(Urban ii).

CAUSES OF DEATH.		Knutsford U.D.		Longden- dale U.D.		Lymm U.D.		Maccles- field M.B.		Marple U.D.		Middle- wich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Staly- bridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
ALL CAUSES — —	86	119	39	38	43	50	208	280	98	84	42	46	71	94	69	60	134	123	123	113	248	281	68	49	146	152	98	120	85	82	120	128	
1 Tuberculosis, Respiratory	1	—	—	—	—	—	3	—	1	—	1	—	—	1	—	—	—	—	1	—	1	1	—	—	3	—	1	—	—	—	—	1	
2 Tuberculosis, Other —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3 Syphilitic Disease —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—	—	1	
4 Diphtheria — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 Whooping Cough —	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6 Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7 Acute Poliomyelitis —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8 Measles — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9 Other Infective and Parasitic Diseases	—	—	—	1	—	—	2	1	—	—	—	2	—	—	—	1	—	—	—	—	1	—	—	—	—	1	—	1	—	—	—	—	
10 Malignant Neoplasm, Stomach	1	2	2	3	2	3	9	7	3	3	1	4	4	5	2	1	3	4	4	2	12	6	2	1	5	1	5	3	2	2	2	1	
11 Malignant Neoplasm, Lung, Bronchus	2	1	2	—	4	1	10	1	8	1	2	—	4	1	3	—	9	—	14	2	16	2	2	—	7	1	7	3	5	1	4	4	
12 Malignant Neoplasm, Breast	—	3	—	—	—	3	—	7	—	—	—	3	—	4	—	3	—	3	—	2	—	10	—	1	—	4	—	2	—	3	—	3	
13 Malignant Neoplasm, Uterus	—	—	—	1	—	—	—	6	—	4	—	2	—	—	—	1	—	3	—	1	—	7	—	—	3	—	2	—	1	—	4		
14 Other Malignant and Lymphatic Neoplasms	3	2	5	1	3	6	17	35	11	5	4	1	4	9	4	5	14	11	10	12	21	19	3	4	12	13	9	10	5	12	14	13	
15 Leukaemia, Aleukaemia	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	3	—	—	—	—	—	1	—	—	—	1	—	
16 Diabetes — —	1	—	—	2	—	—	—	3	—	1	—	1	3	—	—	—	—	—	1	3	—	1	—	—	—	2	1	—	—	—	—	2	
17 Vascular Lesions of Nervous System	15	28	8	7	6	10	22	49	11	22	7	9	9	20	8	12	21	26	17	18	32	67	4	8	21	32	11	34	7	15	15	15	
18 Coronary Disease, Angina	7	13	11	7	11	7	51	43	22	9	12	5	14	8	23	11	25	12	25	22	67	37	10	9	33	19	24	18	22	9	35	28	
19 Hypertension with Heart Disease	1	1	1	3	1	—	8	9	4	3	—	1	1	3	3	1	1	3	—	5	4	3	—	2	—	1	—	2	1	2	5	12	
20 Other Heart Disease—	17	21	3	6	3	4	12	55	5	8	5	7	3	12	3	9	12	24	8	15	18	48	5	7	16	36	4	10	9	12	8	19	
21 Other Circulatory Disease	3	3	1	—	4	3	7	8	5	5	—	2	3	10	4	3	14	10	6	6	15	25	3	1	4	8	10	11	6	5	5	3	
22 Influenza — —	—	—	—	—	—	—	1	—	—	1	—	1	—	—	—	—	—	2	—	—	1	—	—	—	—	—	1	—	—	—	—	—	
23 Pneumonia — —	2	11	—	2	—	1	7	19	3	1	—	—	5	3	1	1	5	6	1	8	5	12	1	—	8	3	6	4	3	1	7	8	
24 Bronchitis — —	8	3	1	1	1	—	11	8	6	4	2	—	8	1	6	1	8	5	13	4	10	8	7	2	15	5	5	—	2	—	9	—	
25 Other Diseases of Respiratory System	1	—	—	—	2	1	3	1	—	—	—	—	—	—	—	—	1	1	1	—	4	1	—	2	—	—	—	—	3	1	—	3	1
26 Ulcer of Stomach and Duodenum	—	1	—	—	—	—	2	1	2	1	—	2	2	—	—	1	3	1	2	—	2	1	—	—	—	—	2	—	1	1	1	1	
27 Gastritis, Enteritis and Diarrhoea	—	1	—	—	—	—	1	1	—	—	—	—	—	1	—	—	2	1	1	—	1	1	1	1	—	—	3	1	1	—	—	—	
28 Nephritis and Nephrosis	—	—	—	1	2	—	—	1	—	1	1	—	1	1	1	2	1	—	1	1	1	1	2	1	—	1	1	1	2	3	—	—	
29 Hyperplasia of Prostate	1	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	2	—	1	—	6	—	1	—	4	—	—	—	3	—	1	—	
30 Pregnancy, Childbirth, Abortion	—	1	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
31 Congenital Malformations	1	1	—	—	1	—	2	3	—	—	1	1	—	—	—	—	3	—	—	4	3	3	1	—	—	—	—	—	—	—	—	2	
32 Other Defined and Ill-defined Diseases	18	26	4	3	1	7	13	11	11	14	5	4	6	14	7	6	6	8	6	4	18	17	21	10	12	16	8	8	10	13	5	4	
33 Motor Vehicle Accidents	3	—	—	—	2	3	2	—	1	—	—	—	2	—	1	—	—	1	2	2	1	—	1	—	3	1	1	2	2	—	4	4	
34 All Other Accidents—	—	1	1	—	—	—	3	6	3	—	—	1	1	—	1	2	4	1	4	—	2	3	3	—	2	2	—	2	1	1	1	1	
35 Suicide — —	—	—	—	—	—	—	1	3	1	—	1	—	—	—	1	—	—	—	4	1	3	7	1	—	1	1	1	—	2	—	—	1	
36 Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	
LIVE BIRTHS—Total —	81	94	32	31	65	72	292	249	135	130	57	58	86	104	116	87	142	131	243	220	457	427	70	63	191	189	195	179	109	107	193	166	
Legitimate —	80	93	31	31	64	68	279	233	134	127	57	57	85	97	112	83	139	128	233	214	440	408	65	60	182	184	185	171	106	106	183	156	
Illegitimate —	1	1	1	—	1	4	13	16	1	3	—	1	1	7	4	4	3	3	10	6	17	19	5	3	9	5	10	8	3	1	10	10	
STILLBIRTHS —Total —	3	1	—	—	3	1	7	2	1	4	—	—	—	1	1	1	4	2	3	7	5	7	2	1	2	2	5	2	2	4	3	1	
Legitimate —	3	1	—	—	3	1	5	2	1	4	—	—	—	1	1	1	4	2	2	6	5	7	2	1	2	2	5	2	2	4	3	1	
Illegitimate —	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (under one year of age) { Total —	6	2	—	1	1	3	6	3	3	2	2	1	—	1	3	1	8	2	3	7	8	7	3	1	4	2	4	1	1	2	1	2	
Legitimate —	6	2	—	1	1	3	6	2	3	2	2	1	—	1	3	1	7	2	2	7	8	7	3	1	4	2	4	1	1	2	1	2	
Illegitimate —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (Under 4 weeks of age) { Total —	3	1	—	1	—	1	4	3	3	2	1	1	—	1	2	1	2	1	2	4	6	7	2	—	3	2	4	1	1	2	1	1	
Legitimate —	3	1	—	1	—	1	4	2	3	2	1	1	—	1	2	1	2	1	1	4	6	7	2	—	3	2	4	1	1	2	1	1	
Illegitimate —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (under 1 week of age) { Total —	3	1	—	1	—	1	3	3	3	2	1	—	—	1	2	1	1	1	2	2	5	6	2	—	2	2	3	1	—	2	1	1	
Legitimate —	1	—	—	1	—	1	3	2	3	2	1	—	—	1	2	1	1	1	1	2	5	6	2	—	2	2	3	1	—	2	1	1	
Illegitimate —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

	Deaths of Infants (under one year of age)		Deaths of Infants (Under 4 weeks of age)		Deaths of Infants (under 1 week of age)	
	Total	Legitimate	Total	Legitimate	Total	Legitimate
Stillbirths—Total	65	64	1	1	1	1
Live Births—Total	94	80	3	3	3	3
Legitimate	32	31	1	1	1	1
Illegitimate	93	31	1	1	1	1
36 Homicide & Operations of War	—	—	—	—	—	—
35 Suicide	—	—	—	—	—	—
34 All Other Accidents	1	1	1	1	1	1
33 Motor Vehicle Accidents	26	18	3	3	3	3
32 Other Defined and Ill-defined Diseases	1	1	—	—	—	—
31 Congenital Malformations	1	1	—	—	—	—
30 Pregnancy, Childbirth, Abortion	1	1	—	—	—	—
29 Hyperplasia of Prostate	—	—	—	—	—	—
28 Nephritis and Nephrosis	1	—	—	—	—	—
27 Duodenum Gastritis, Enteritis and Diarrhoea	1	—	—	—	—	—

TABLE A—(Rural).

CAUSES OF DEATH.		Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES	— —	82	61	159	218	107	107	18	16	122	123	167	144	217	178	221	233	66	81	10	10
1	Tuberculosis, Respiratory	—	1	—	1	1	—	—	—	—	—	—	—	2	—	—	1	—	1	—	—
2	Tuberculosis, Other	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	Syphilitic Disease	—	—	—	—	—	—	—	—	—	1	—	1	—	—	1	—	—	—	—	—
4	Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	Other Infective and Parasitic Diseases	—	—	—	1	—	—	—	—	—	—	1	—	2	—	1	—	—	—	—	—
10	Malignant Neoplasm, Stomach	1	1	2	8	5	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	Malignant Neoplasm, Lung, Bronchus	6	1	6	3	4	—	2	—	3	1	7	4	6	3	3	6	—	1	1	1
12	Malignant Neoplasm, Breast	—	3	—	9	—	1	—	—	—	5	—	9	2	13	4	16	2	1	—	—
13	Malignant Neoplasm, Uterus	—	1	—	1	—	4	—	—	—	5	—	5	—	5	—	10	—	3	—	1
14	Other Malignant and Lymphatic Neoplasms	4	5	12	21	9	7	3	1	12	8	7	18	24	3	22	22	8	4	—	3
15	Leukemia, Aleukemia	—	—	1	—	—	1	—	—	1	—	1	1	3	—	—	2	—	1	—	—
16	Diabetes	—	—	1	2	—	—	—	—	1	—	2	1	1	4	—	2	—	—	—	—
17	Vascular Lesions of Nervous System	11	13	17	33	10	14	1	4	15	27	27	24	23	35	22	24	7	18	1	4
18	Coronary Disease, Angina	22	7	36	25	16	11	6	1	28	22	39	22	50	21	58	46	10	11	2	—
19	Hypertension with Heart Disease	—	—	—	9	2	—	1	—	2	4	5	3	2	9	6	6	1	4	—	1
20	Other Heart Disease	10	4	14	34	5	6	1	2	16	17	18	21	24	24	20	29	9	11	2	—
21	Other Circulatory Disease	3	2	5	12	1	3	—	4	4	4	4	9	13	9	11	9	3	2	—	—
22	Influenza	—	—	1	3	—	—	—	—	—	—	1	1	2	—	1	1	1	—	—	—
23	Pneumonia	2	1	14	18	2	—	1	—	7	4	5	3	3	7	14	15	11	4	—	—
24	Bronchitis	2	2	11	9	4	2	2	1	6	3	16	4	15	4	13	5	4	4	1	—
25	Other Diseases of Respiratory System	—	1	3	—	—	1	—	—	—	—	—	1	2	1	2	1	—	1	—	—
26	Ulcer of Stomach and Duodenum	1	1	3	1	1	—	—	—	1	—	—	—	—	1	1	2	—	1	—	—
27	Gastritis, Enteritis and Diarrhoea	—	—	1	2	—	1	—	—	3	1	—	—	—	1	2	—	1	—	—	—
28	Nephritis and Nephrosis	1	2	1	—	2	1	—	—	—	—	2	1	—	2	—	—	—	—	—	—
29	Hyperplasia of Prostate	2	—	1	—	—	—	—	—	—	—	2	1	1	—	2	3	2	1	—	—
30	Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	2	—	3	—	2	—	3	—	1	—	—	—
31	Congenital Malformations	1	2	3	1	2	—	—	—	1	3	1	1	—	1	1	1	—	1	—	—
32	Other Defined and Ill-defined Diseases	12	11	12	18	35	47	1	2	8	17	7	17	16	19	15	27	5	11	2	—
33	Motor Vehicle Accidents	1	2	9	—	4	—	—	—	2	1	5	—	5	2	5	1	1	2	—	—
34	All Other Accidents	1	1	5	5	4	3	—	1	5	—	3	1	2	3	4	10	—	1	—	—
35	Suicide	1	—	—	1	—	2	—	—	—	—	1	4	3	4	2	3	2	—	—	—
36	Homicide & Operations of War	—	—	1	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
LIVE BIRTHS—Total	—	144	131	228	214	104	105	20	17	172	162	229	231	311	328	330	356	98	119	13	13
Legitimate	—	142	125	220	211	103	103	20	17	168	157	218	220	302	315	321	346	95	117	13	13
Illegitimate	—	2	6	8	3	1	2	—	—	4	5	11	11	9	13	9	10	3	2	—	—
STILLBIRTHS—Total	—	4	3	3	2	4	1	2	—	3	2	5	6	10	13	4	8	4	4	1	1
Legitimate	—	4	3	3	2	4	1	2	—	3	1	5	6	10	13	4	8	4	4	1	1
Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under one year)	Total	2	3	3	4	2	1	1	1	5	6	3	2	7	4	9	4	—	2	—	—
	Legitimate	2	3	3	4	2	1	1	1	5	6	3	1	7	4	9	3	—	2	—	—
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under 4 weeks of age)	Total	2	2	2	3	2	1	1	1	3	4	2	1	3	3	6	3	—	2	—	—
	Legitimate	2	2	2	3	2	1	1	1	3	4	2	—	3	3	6	2	—	2	—	—
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under 1 week of age)	Total	2	1	1	3	1	—	1	1	3	4	2	—	3	2	5	3	—	2	—	—
	Legitimate	2	1	1	3	1	—	1	1	3	4	2	—	3	2	5	3	—	2	—	—
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	Deaths of Infants (under one year)		Deaths of Infants (under 4 weeks of age)		Deaths of Infants (under 1 week of age)		Total	Legitimate	Illegitimate	Stillbirths—Total	Legitimate	Illegitimate	Live Births—Total	Other Defined and Ill-defined Diseases	Motor Vehicle Accidents	All Other Accidents	Suicide	Homicide & Operations of War
	Total	Legitimate	Total	Legitimate	Total	Legitimate												
32	1	1	2	2	2	2	144	142	2	131	125	6	228	1	1	1	1	1
33	2	2	3	3	3	3	220	228	8	214	211	3	1	3	5	5	5	5
34	11	11	12	12	12	12	103	104	1	103	103	1	1	4	4	4	4	4
35	12	12	12	12	12	12	105	105	2	103	103	2	2	3	3	3	3	3
36	1	1	1	1	1	1	105	105	2	103	103	2	2	3	3	3	3	3

TABLE B

CAUSES OF DEATH.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
		All Ages	0—	1—	5—	15—	25—	45—	65—	75—	All Ages	0—	1—	5—	15—	25—	45—	65—	75—		
ALL CAUSES — —	M	4028	146	24	23	39	163	1155	1146	1332	1169	32	6	6	16	45	326	290	448		
	F	4060	104	14	19	19	136	698	1020	2050	1171	27	4	5	3	33	192	289	618		
1 Tuberculosis, Respiratory — —	M	25	—	—	—	—	1	10	12	2	3	—	—	—	—	1	1	1	—		
	F	5	—	—	—	—	2	2	1	—	4	—	—	—	—	—	—	—	—		
2 Tuberculosis, Other — —	M	5	—	—	—	1	1	1	2	—	2	1	—	—	1	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3 Syphilitic Disease — —	M	6	—	—	—	—	1	—	4	1	1	—	—	—	—	1	—	—	—		
	F	4	—	—	—	—	—	3	—	1	2	—	—	—	—	—	2	—	—		
4 Diphtheria — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
5 Whooping Cough — —	M	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6 Meningococcal Infections — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
7 Acute Poliomyelitis — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8 Measles — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
9 Other Infective and Parasitic Diseases — —	M	9	—	1	1	1	—	2	2	2	4	2	—	1	—	—	1	—	—		
	F	13	—	1	1	—	3	5	3	—	1	—	—	1	—	—	—	—	—		
10 Malignant Neoplasm, Stomach — —	M	144	—	—	—	—	1	59	48	36	28	—	—	—	—	1	15	9	4		
	F	117	—	—	—	—	2	22	41	52	28	—	—	—	—	—	4	12	11		
11 Malignant Neoplasm, Lung Bronchus — —	M	238	—	—	—	—	7	125	80	26	62	—	—	—	2	38	18	4	1		
	F	46	—	—	—	—	1	17	18	10	14	—	—	1	—	10	2	4	1		
12 Malignant Neoplasm, Breast — —	M	—	—	—	—	—	21	43	32	29	42	—	—	—	5	17	14	6	—		
	F	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
13 Malignant Neoplasm, Uterus — —	M	77	—	—	—	—	14	36	16	11	14	—	—	—	1	3	6	4	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
14 Other Malignant and Lymphatic Neoplasms — —	M	341	—	2	2	3	17	114	117	86	101	—	1	—	5	31	28	36	43		
	F	367	—	3	1	2	16	123	113	109	109	—	—	1	6	34	25	4	—		
15 Leukaemia, Aleukaemia — —	M	16	—	1	3	2	1	4	2	3	6	—	—	—	2	—	2	1	1		
	F	13	—	1	5	—	2	3	2	2	5	—	—	—	1	—	1	3	—		
16 Diabetes — —	M	15	—	—	—	—	1	6	5	3	5	—	—	—	—	—	1	1	3		
	F	36	—	—	—	—	3	5	13	15	9	—	—	—	—	—	2	—	7		
17 Vascular Lesions of Nervous System — —	M	505	1	1	—	1	8	105	164	225	134	—	—	—	5	20	43	66	97		
	F	773	—	—	—	—	6	107	214	446	196	—	—	—	3	27	69	97	—		
18 Coronary Disease, Angina — —	M	966	—	—	—	—	33	375	306	252	267	—	—	—	5	103	79	80	96		
	F	620	—	—	—	—	6	100	218	296	166	—	—	—	1	19	50	96	—		
19 Hypertension with Heart Disease — —	M	68	—	—	—	—	—	18	23	27	19	—	—	—	1	2	7	10	21		
	F	98	—	—	—	—	—	10	33	55	36	—	—	—	—	13	21	21	—		
20 Other Heart Disease — —	M	353	1	1	—	2	9	56	79	209	119	—	—	—	4	23	24	68	—		
	F	607	—	—	—	—	8	66	111	418	148	—	—	—	2	15	23	108	—		
21 Other Circulatory Disease — —	M	181	—	—	—	—	6	39	48	88	44	—	—	—	2	7	7	28	—		
	F	209	—	—	—	—	4	22	38	145	54	—	—	—	1	3	9	41	—		
22 Influenza — —	M	7	—	—	1	2	—	1	3	1	6	—	1	1	1	—	1	3	2		
	F	9	—	—	—	—	1	—	1	5	5	—	—	—	—	—	—	—	1		
23 Pneumonia — —	M	160	18	2	2	1	2	32	42	61	59	4	1	—	—	9	12	33	—		
	F	195	13	2	1	—	2	23	33	121	52	3	1	—	1	6	7	34	—		
24 Bronchitis — —	M	278	1	2	—	—	2	75	105	93	74	1	—	—	2	22	28	21	—		
	F	112	1	—	—	—	2	14	37	58	34	—	—	—	6	11	17	17	—		
25 Other Diseases of Respiratory System — —	M	35	1	—	—	—	3	15	10	6	8	—	—	—	—	4	1	3	—		
	F	19	—	1	—	1	1	1	6	9	5	—	—	—	—	3	—	2	—		
26 Ulcer of Stomach and Duodenum — —	M	48	—	—	—	—	—	14	18	16	7	—	—	—	—	2	2	3	—		
	F	20	—	—	—	—	1	4	6	9	6	—	—	—	—	1	4	1	—		
27 Gastritis, Enteritis and Diarrhoea — —	M	13	3	2	—	1	2	3	2	8	6	1	—	—	—	2	1	2	—		
	F	23	3	—	1	—	2	4	5	—	7	—	—	—	—	1	2	4	—		
28 Nephritis and Nephrosis — —	M	30	—	1	—	2	4	13	3	7	11	—	—	—	—	4	2	5	—		
	F	25	—	—	2	1	1	6	6	9	8	—	—	—	1	3	2	2	—		
29 Hyperplasia of Prostate — —	M	47	—	—	—	—	—	3	15	29	14	—	—	—	—	—	3	11	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
30 Pregnancy, Childbirth, Abortion — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	5	—	—	—	—	—	5	—	—	1	—	—	—	1	—	—	—	—		
31 Congenital Malformations — —	M	23	18	1	—	1	2	1	1	—	9	7	—	1	1	—	—	—	—		
	F	33	24	2	1	—	2	2	1	—	9	7	1	—	—	—	—	—	—		
32 Other Defined and Ill-defined Diseases — —	M	347	99	4	4	6	17	36	45	136	113	15	2	1	4	18	15	55	—		
	F	379	59	—	1	2	12	55	47	203	169	14	1	1	3	19	26	101	—		
33 Motor Vehicle Accidents — —	M	70	—	2	5	12	22	21	6	2	32	—	—	—	5	10	2	4	—		
	F	30	—	2	1	6	6	8	5	4	8	—	1	—	—	3	2	2	—		
34 All Other Accidents — —	M	64	5	4	5	6	11	13	4	16	24	1	1	1	3	4	5	8	—		
	F	59	3	—	3	1	2	5	14	31	25	2	—	—	—	—	—	19	—		
35 Suicide — —	M	34	—	—	—	—	13	14	3	4	11	—	—	—	1	2	6	1	—		
	F	30	—	—	—	2	8	12	4	4	12	—	—	—	3	6	3	—	—		
36 Homicide and Operations of War — —	M	4	—	—	1	1	1	1	—	—	—	—	—	—	1	—	—	—	—		
	F	4	—	1	—	—	2	—	—	—	2	1	—	—	—	—	—	—	—		

No.	Disease	M	F	Total
21	Other Circulatory Disease	181	607	788
22	Influenza	209	7	216
23	Pneumonia	7	9	16
24	Bronchitis	18	195	213
25	Other Diseases of Respiratory System	112	35	147
26	Ulcer of Stomach and Duodenum	1	19	20
27	Gastritis, Enteritis and Diarrhoea	48	20	68
28	Nephritis and Nephrosis	13	23	36
29	Hyperplasia of Prostate	30	25	55
30	Pregnancy, Childbirth, Abortion	47	—	47
31	Congenital Malformations	5	—	5
32	Other Defined and Ill-defined Diseases	23	18	41
33	Motor Vehicle Accidents	347	99	446
34	All Other Accidents	70	30	100
35	Suicide	64	5	69
36	Homicide and Operations of War	34	30	64

TABLE C

SANITARY DISTRICTS.	Population at Census, 1951*	Estimated Population in middle of 1960.	Area in Acres 1960	Illegitimate Births	Still Births.	Total Live Births.	Live Birth rate per 1000	Deaths	Death- rate per 1000	Deaths from				Deaths from Principal Zoonoses	Principal Zoonoses Deaths	Death-rate	No. of Deaths under one year	Deaths under one year to 1000 Births	No. of Deaths under four weeks	Deaths under four weeks to 1000 Births	No. of Deaths under one week	Medical Officers of Health and Divisional Officers at 31/12/60
										Measles	Diphtheria	Whooping Cough	Gastritis and Enteritis									
Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
MUNICIPAL BOROUGHS																						
Altrincham	39789	41180	3477	28	10	710	17.2	505	12.3	—	—	—	3	3	.07	17	24	13	18	13	Dr. D. Longbottom	
Bebington	47844	51640	12234	25	13	870	16.8	557	10.8	—	—	—	2	3	.06	27	31	21	24	20	Dr. F. S. Melville	
Congleton	15502	16210	5587	12	3	289	17.8	225	13.9	—	—	—	2	2	.12	3	10	2	7	2	Dr. L. Rich	
Crewe	52423	51320	4386	56	28	910	17.4	540	10.5	—	—	—	1	2	.04	19	21	16	18	11	Dr. D. G. Crawshaw	
Dukinfield	18451	18000	1725	12	5	223	12.4	223	12.4	—	—	—	—	—	—	2	9	2	9	2	Dr. T. Holme	
Ellesmere Port	32653	40920	9144	27	27	964	23.6	332	8.1	—	—	—	1	1	.03	18	37	13	27	11	Dr. W. J. Birchall	
Hyde	31494	31640	4170	27	5	489	15.5	454	14.3	—	—	—	2	2	.05	9	17	7	13	6	Dr. W. R. Pews	
Macclesfield	36052	36780	4787	29	9	541	14.7	488	13.3	—	—	—	2	2	.04	15	17	13	15	11	Dr. E. H. Gordon	
Sale	43168	50030	3629	36	12	884	17.7	529	10.6	—	—	—	—	—	—	6	16	5	13	4	Dr. T. Holme	
Stalybridge	22541	22470	3190	14	4	380	16.9	298	13.3	—	—	—	—	—	—	—	—	—	—	—		
Total Municipal Boroughs	339917	360190	43185	266	116	6260	17.4	4151	11.5	—	—	—	16	16	.04	135	22	106	17	92		
OTHER URBAN DISTRICTS																						
Alderley Edge	3689	3770	702	—	1	44	11.7	55	14.6	—	—	—	—	—	—	2	17	—	—	—	Dr. H. M. Thomas	
Alsager	5575	7760	2241	4	6	119	15.3	58	7.5	—	—	—	—	—	—	4	49	3	37	3	Dr. L. Rich	
Bollington	5313	5500	1442	3	2	81	14.7	76	13.8	—	—	—	1	1	.24	3	57	1	19	1	Dr. D. Longbottom	
Bowdon	3529	4200	1090	1	—	53	12.6	58	13.8	—	—	—	3	3	.15	12	34	9	25	7	Dr. T. W. Brindle	
Bredbury & Romiley	17667	20480	4290	7	4	355	17.3	212	10.4	—	—	—	3	3	.07	16	17	12	13	11	Dr. H. M. Thomas	
Cheadle & Gatley	31511	41870	5299	22	16	945	22.6	421	10.1	—	—	—	—	—	—	2	11	2	11	2	Dr. D. Longbottom	
Hale	12152	13380	2264	2	2	185	13.8	178	13.3	—	—	—	—	—	—	6	11	5	9	5	Dr. T. W. Brindle	
Hazle Grove and Bramhall	19674	28520	5996	12	15	490	15.9	416	13.5	—	—	—	1	1	.21	9	18	6	12	6	Dr. J. Hutton	
Hoyle	30936	30900	5996	2	4	175	18.6	205	21.8	—	—	—	—	—	—	1	16	1	16	1	Dr. D. Longbottom	
Knutsford	6617	9400	2485	1	—	63	14.4	77	17.5	—	—	—	—	—	—	4	29	1	7	1	Dr. W. Turner	
Longdendale	4591	4390	3545	1	—	63	14.4	77	17.5	—	—	—	—	—	—	5	19	5	19	5	Dr. E. H. Gordon	
Lymm	6412	7140	4241	5	4	137	19.2	93	13.0	—	—	—	—	—	—	3	26	2	17	1	Dr. T. W. Brindle	
Marple	6736	6910	1971	1	—	115	16.6	88	12.7	—	—	—	1	1	.10	1	5	1	5	1	Dr. W. S. Slater	
Middlewich	8843	10250	1177	8	1	190	18.5	165	16.1	—	—	—	—	—	—	4	20	3	15	3	Dr. R. K. Hay	
Nantwich	9726	11550	8495	8	2	203	17.6	129	11.2	—	—	—	3	3	.16	10	37	3	11	2	Dr. W. S. Slater	
Neston	20160	19280	2636	6	6	273	14.3	257	13.3	—	—	—	1	1	.04	10	22	6	13	4	Dr. J. L. Patterson	
Northwich	23931	26330	3127	16	10	463	17.6	236	9.0	—	—	—	2	2	.20	4	30	2	15	2	Dr. L. Rich	
Runcorn	9253	9960	3716	8	3	133	13.3	117	11.7	—	—	—	3	3	.14	5	13	5	13	4	Dr. H. M. Thomas	
Sandbach	19536	21220	7691	18	7	374	17.6	218	10.3	—	—	—	2	2	.15	3	14	3	14	2	Dr. W. S. Slater	
Wilmslow	12738	13030	7094	4	6	216	16.6	167	12.8	—	—	—	—	—	—	3	8	2	6	2	Dr. J. Hutton	
Winsford	17362	21190	5639	20	4	359	16.9	248	11.7	—	—	—	—	—	—	—	—	—	—	—		
Warral	17362	21190	5639	20	4	359	16.9	248	11.7	—	—	—	—	—	—	—	—	—	—	—		
Total Urban Districts	289024	332790	97405	158	107	5797	17.4	3937	11.8	—	—	—	1	20	.06	115	20	76	13	67		
RURAL DISTRICTS																						
Bucklow	11185	14770	46103	8	7	275	18.6	143	9.7	—	—	—	3	3	.11	5	18	4	15	3	Dr. D. Longbottom	
Chester	25540	28250	43829	11	5	442	15.6	377	13.1	—	—	—	—	—	.07	7	16	5	11	4	Dr. W. J. Birchall	
Congleton	13261	13980	38704	3	5	209	14.9	214	15.1	—	—	—	1	1	.11	3	14	3	14	1	Dr. L. Rich	
Disley	2865	3030	2208	—	2	37	12.2	34	11.2	—	—	—	—	—	.18	11	33	7	21	7	Dr. T. W. Brindle	
Macclesfield	19878	21640	72533	9	5	314	15.4	245	11.3	—	—	—	4	4	.11	3	11	3	7	2	Dr. R. K. Hay	
Nantwich	27633	28790	100844	22	11	460	16.0	311	10.8	—	—	—	3	3	.07	11	17	6	9	5	Dr. W. S. Slater	
Northwich	35038	40890	57014	22	23	639	15.6	395	9.7	—	—	—	2	2	.05	13	19	9	13	8	Dr. J. L. Patterson	
Runcorn	35573	38960	45552	19	12	616	17.4	147	9.9	—	—	—	—	—	—	2	9	2	9	2	Dr. W. J. Birchall	
Tarvin	14606	14780	62593	5	8	217	14.7	147	13.2	—	—	—	—	—	—	—	—	—	—	—	Dr. W. Turner	
Tintwistle	1364	1510	11855	—	2	26	17.2	20	13.2	—	—	—	—	—	—	—	—	—	—	—		
Total Rural Districts	186943	206600	481235	99	80	3325	16.1	2340	11.3	—	—	—	13	13	.06	59	18	41	12	34		
Administrative County	815884	899580	621825	523	303	15382	17.1	10428	11.6	—	—	—	1	49	.06	309	20	223	14	193		

*These are the 1951 Census populations for the areas as Constituted 1/4/60

